### THE

# DIAN YEAR BOOK

1916.

A STATISTICAL AND HISTORICAL ANNUAL OF
THE INDIAN EMPIRE, WITH AN
EXPLANATION OF THE
PRINCIPAL TOPICS
OF THE DAY

EDITED BY

STANLEY REED, LL D.

### THIRD YEAR OF ISSUE

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#### PREFACE.

The third issue of The Indian Year Book has been produced under the pressure of war. The public will readily appreciate the difficulties which this entailed Certain great Indian questions are still in a state of flux. This applies especially to The Frontiers. A dramatic change was effected by the substitution of Germany instead of Russia as the Power which was creeqing near the Indian border and by the association of Turkey with the Teutonic Powers in a war of colcul ted aggression. Whilst the issue of the campaign in Mesopotamia can have but one end that has not yet been reached a revolution in the Indian frontier problem has been brought about by the British conquest of Iraq and the collapse of the authority of the Persian Government before German brigands and an insurrectionary gendarmerie. So far as possible these have been outlined in the section on the Indian frontiers but the situation is rapidly changing

Certain internal questions have also been materially affected by the war. The outbreak of hostilities closed the Continent to Indian produce and Germany and Austria were considerable buyers of Indian raw materials, whilst Germany had won a substantial share of the import trade. These changes, and their resultant effect on the trade of Japan have been described as far as possible. Indian finance too has been indirectly affected. In normal years India saturfies the major portion of her capital requirements for the construction of irrigation works and railways in London, that market has been temporarily closed by the demands of the Home Government and the official summary of the consequences which will be made in the next Budget is awaited with intense interest. Whilst these and many other changes have demanded special study the circle of valued by the war, those who remain are overworked. The thanks of the Editor are in special measure due to all who have collaborated in these circumstances.

In all important respects the third Issue follows that of 1915. The debates of the Imperial and Provincial Engislative Councils have been recorded in greater fallices, because although by common consent controversial issues were avoided, they show the directions in which the political thought of India is tending. The special part which India is playing in the war is indicated by a full summary of the campaign in Mesopotamia and the section India and the War. The action at Chenphon was fought after the desopotamian section had gone to press.

In the earlier issues the Editor appealed for the editing of The Year Book by the public. The appeal has brought many suggestions, which have been a represent the same. One friendly critic asked that in all circumstances it statistical tables should be brought up to date. The request would gladly have been met, but until the student dives deeply into Indian official literature he does not appreciate the difficulties which it presents. The main statistical volumes are issued tardily and at erratic intervals, whilst that invaluable companion, the statistical abstract of British India, reaches India in January, and even then is in some respects two or three years old. Where the statistics seem a little out of date they are taken from the last official returns, and except in very rare circumstances it has been thought safer to depend entirely on official publications.

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### Phases of the Hoon-JANUARY 31 Days.

Mow Moon
First Quarter
In Perigon

54h, 10h, 15 4m. a.m 12th 9h, 7 6m a.m 4th, 7 8h. P.M Q Full Moon ( Last Quarter In Apogee 20th, 1h. 59 °0m. P.M. 28th, 6h 5 1m. A.M. th, 10 6h. A.M

	Day of	Day of the Year	<u> </u> _		Mesn	Moon #		Sun s Declina				
Day of the Week.	Month.			n <b>ris</b> e ,K	Bunset. P.M.		True Noon.		Age Noor	2.	at 1	on Eond Om
			н	¥.	BL.	¥	н_	M.	D	,		8
Saturday	1 1	1	7	12	6	12	P.J	42	25 !	55	23	7
Sumday	2	2	7	12	6	18	0	42	26 (	i B	23	2
Monday	3	3	7	18	6	13	0	48	27 5	5	22	57
Paceday	4	4	7	19		14	0	43	28 8	55	22	52
Wednesday	5	6	7	13	6	15	0	44	0 1	0	22	45
Cherolay	6	8	7	14	6	15	0	44	1 1	0	盐	89
Friday	7	7	7	14	8	16	0	45	2 1	0	2:2	32
Seturday	8	8	7	14	đ	17	0	46	3 1	Ø	68	25
Sanday	` 9	9	7	14	6	17	0	46	4.1	10	23	17
Monday	10	10	7	14	8	18	0	46	5- 1	10	22	9
Pueday	11	11	7	1,	8	18	0	47	6 :	ĹΟ	22	0
Wednesday	12	12	7	15	6	19	0	47	7 :	ĮO .	21	61
Phureday	13	13	7	15	6	20	0	47	8:	10	21	42
Priday	14	14	7	15	6	20	0	48	9:	10	21	32
Saturday	15	15	7	15	6	21	0	48	10	10	21	21
Sunday	16	30	7	15	6	22	0	48	11	10	21	11
ico de la companya de	17	1		15	6	22	0	49	12	10	21	0
To	18	1.54	7	15	6	23	0	49	13	10	20	48
Wednesday	10	19	7	15	6	24	0	49	14	10	20	36
Immeday	20	20	7	15	6	24	0	50	15	10	20	24
Friday	21	21	7	15	в	25	0	50	15	10	20	13
Maturday	92	92	7	15	6	26	0	60	17	10	19	58
Sendey	23	93	7	15	0	26	0	60	18	w	29	44
<b>L</b> onday	24	24	. 7	15	6	27	0	51	19	10	10	\$1
l'ageday •	25	25	7	15	6	27	0	51	20	10	19	16
Wednesday	26	26	7	15	6	28	0	61	21	10	19	2
Cauraday	<b>27</b>	27	7	15	6	29	0	51	22	10	18	47
riday	<b>5</b> 28	28	7	15	6	20	0	52	23	10	18	32
interday	29	29	7	14	6	30	i o	528	34		18	16
undey	50	80	7	14	6	30	0	52	25		18	0
Konder	81	81	7	14	8	31	0	52	25	_	17	24

#### Phases of the Moon-FEBRUARY 29 Days.

How Mone
 First Quarter
 In Perigee

3rd, 65, 35 cm. P.M. 11th, 8h. 50 cm A M 2nd, 5 ch. A M O Full Moon Last Quarter In Apogee

19th, 7h. 58 6m. a.m. 26th, 2h. 53 8m. p.m. 14th 2 9h. a.m

	Day of	Day of			Mean	Moon s	Dec	got-			
Day of the Week.	Month.	Year Year		nrive M		Deet. X		iue Dom	Age at Noon.	at h	903 (46623) (4752)
	ı		н	¥	B	¥	H .	¥.	D		١.,
Tenday	1	32	~	14	6	31	0	53	27 10	1,	27
Wodacaday	2	33	7	18	0	32	0	52	28 10	17	11
Thursday	3	34	7	18	6	33	8	53	29 10	16	53
Friday	4	35	7	13	6	88	o	58	0 63	16	36
Saturday	5	36	3	12	6	34	0	58	1 68	16	18
Sunday	6	87	7	12	6	34	0	58	2 63	16	0
Monday	7	38	~	12	6	35	0	53	3 63	15	42
Paraday	8	39	7	11	6	35	0	58	4 63	15	23
Wodnesday	9	40	-	11	6	36	0	58	5 63	15	6
Pleuroday	10	41	7	10	6	36	0	58	6 63	14	45
Friday	111	42	7	10	6	37	0	58	7 63	14	12
leturday	12	43	7	9	0	37	0	58	8 43	14	7
Sunday	13	44	7	9		87	0	83	9 63	13	47
Kenday	14	45	1	g	6	#8	0	53	10 63	18	<b>27</b>
Panday	1.5	46	7	8	1 6	29	0	58	11 63	13	7
Wednesday	16	47	7	7	6	39	0	52	12 64	-	46
TIME THE P	1 17	48	, 7	7	6	40	O	53	13 64	11	25
Friday	18	49	7	6	, 6	40	0	58	14 63	12	Þ
Beterday	19	50	7	6	6	40	0	53	15 63	u	44
Sanday	20	51	7	5	6	41	0	Ь3	16 63	11	32
Menday	21	62	7	5	1 6	43	0	68	17 63	11	1
Teculay	22	58	7	4	l 6	42	٩	53	18 63	10	29
Wednesday	23	54	7	3	. 6	42	0	52	19 63	10	18
Thursday	24	55	7	3	5	42	0	52	20 63		56
Briday	25	56	7	2	6	43	0	52	21 68		24
Salurday	355	67	7	1	6	43	0	52	23 68		11
Sanday	27	. 58	7	1	4	48	0	52	23 63		40
Monday		69	7	0	6	44	0	12	24 68		20
Tuesday	1 20	60	6	59	6	44	0	52	25 63		4

### Phases of the Moon-MARCH 51 Bays.

First Quarter
 Full Moon
 In Ferligee
 In Apogee

6th, 9h 27 6m. A.M. 12th, 0h. 9'9m, A.M. 1st 2 2h, P M. 12th, 10 9h. P M. Last Quarter
New Moon
In Perigne

10th, 10h, 56-7m, P.M. 25th, 0h 83-4m, P.M. 25th, 67 P.M.

	Day of	Day of		M	en T	Moon's	Sun's Decime-			
Day of the Week.	the Month,	the Year	800	rine. M.	Ben P.		Tr No		Age at Noon,	at Mosa Roos.
	<u></u>	ļ	H.	M.	■.	K.	P M.	w.	D.	8.
Wednesday	1	61	6	59	6	44	o"	<b>5</b> 1	26 63	7 <b>4</b> l
Thursday	3	6%	8	58	6	45	0	51	27 65	7 18
Friday	3	68	6	57	6	45	0	51	<b>\$5</b> 53	6 <b>84</b>
Saturday	4	54	6	56	6	45	٥	51	0 14	6 25
Sanday	5	65	6	56	6	46	0	50	1 14	6 9
Monday	6	66	6	55	6	46	0	50	\$ 14	5 🚧
Tuesda7	7	67	0	54	6	46	0	50	3 14	, =
Wednesday	8	68	6	58	6	47	0	50	4 14	5 6
Thursday	9	₩		63	6	47	5	5 <b>0</b>	6 16	4 24
Friday	10	70	6	52	6	47	D	49	614	6 18
Saturday	11	71	6	51	6	48	0	49	7 14	1 4
Sunday	13	72	6	50	6	48	0	49	8 14	3 24
Monday	18	78	0	49	6	48	0	48	9 14	
Tuesday	14	74	0	48	6	48	0	48	10 14	2 20
Wednesday	15	75	6	47	6	49	0	48	11 14	2 15
Thursday	16	ுக	ء ا	46	6	49	0	48	12 14	1 10
Triday_	17	<b>25</b>	0	45	0	49	0	47	13 14	1 27
Saturday	18		•	44	6	49	0	47	14 14	1 4
Sunday	10	79	6	44	6	50	0	47	15 14	6 46
Monday	20	80	6	43	6	50	0	46	16 14	0 16
Tocoday	21	81	6	42	6	50	0	46	17 14	0 17
Wednesday	23	82	6	41	6	50	0	46	18 14	0 22
Thursday	23	83	0	40	0	<b>53</b>	0	46	19 14	0 4
Briday	24	84	6	89	6	51	0	45	20 14	1 10
Setturday	25	85	6	\$9	6	51	0	45	81 16	1 🛱
Sanday	24	86	6	88	8	51	0	45	28 14	2 •
Monday	27	87		27	6	51	0	44	25 14	3 10
Tuerday	28	88	6	87	6	52	a	44	24 14	
Wednesday	*	80	6	26	6	52	0	44	25 16	8 X4
Tittreday	an an	90	0	35	ь	52	0	<b>63</b>	36 1	L 3 24
Friday	l tu	91		34	٠.	52		43	27 1	

## Places of the Moon-APRIL 30 Days

How Moon
 First Quester
 In Apogee

2nd, 9h, 51 2m, p.m 10th, 8h, 5'7m, p.m. 9th, 7 2h, p.m O Full Moon

Last Quarter
In Periger

1966, 10b, 27 5m, 4.m. 25th, 46 8 2m A.M. 21st, 5 1h, P.M.

	Day of	Day of	I		M can	Moon s	Declina-				
Day of the Week.	Month.	Year		Senzise.		Sunset. P.M		rue oon.	Age at Noon	1 84	Men Men 000.
			H.	W.	<b>.</b>	¥	B.	* *	D		N,
Baturday	1	92	6	83	6	53	ļo	43	28 14	4	36
Senday	2	98	•	83	6	58	0	42	29 14	4	49
Menday	8	94	6	32	6	58	0	43	0.68		12
Tuesday	4	96	6	31	6	63	0	42	1 43	5	35
Wednesday	5	98	0	30	6	54	10	12	2 62	5	58
Thursday	6	97	6	29	6	54	0	41	3 62	ð	21
Friday	7	98	8	28	6	54	0	41	4 63	6	<b>6</b> 8
Baturday	8	99	6	28	6	54	٥	43	5 62	7	6
Souday	9	100	6	27	6	54	0	40	6 62	7	28
Monday	10	101	•	26	8	54	0	40	7 62	7	<b>5</b> 0
Poneday	11	102	6	25	6	55	0	40	8 <b>62</b>	8	13
F odnasány	12	103	6	24	6	55	0	40	9 62	8	35
Charakay	11	104	6	24	6	55	0	20	10 62	8	57
friday	14	106	8	23	6	56	0	39	11 62	9	1.8
isterday	15	106	5	222	6	56	0	30	12 62	3	10
lenday	16	107	6	<b>31</b>	6	#	0	89	13 62	4	ı
Conday	17	106	6	21		56	0	28	14 62 4		þ
Peeday	18	109	6	20	6	57	0	38	15 62		44
Yednosing	19	110	6	19	6	57	0	88	16 62	'n	4
Describer	200	111	6	19	6	67	0	38	17 62	11	25
Priday	21	112	6	18	6	57	0	88	18 62	11	46
laborday	22	118	6	17	6	57	0	87	19 62	12	8
Senday	23	114	6	16	4	58	0	87	<b>2</b> 0 62	12	26
Ecolog	24	115	6	16	•	58	0	27	21 62	ų	+6
Canadaty .	25	116	6	15	6	58	0	37	22 52	13	6
Yednesday	*	117	6	14	6	80 ,	0	87	229 62	13	25
leinley	27	118	6	14	8	59	0	26	24 dž	13	45
riday	228	119	6	18	7	0 .	0	36	25 62	14	4
denday	200	120	6	12	7	0	0	26	26 62	14	2
	30	121	6	12	7	اها	0	26	27 62	14	41

New Moss First Quarter In Apoges 2nd, 10h. 58 0m A.M. 10th, 2h 17 1m. PW 7th, 1 2h. PM. O Full Moon ( Last Quarter In Perigee 17th, 7h 41 8m, p.n. 24th, 10h, 46 4m, A.M 19th, 1 5h, p.m.

	Day of	Day of	1	1	Year	Maca s	Sun a Declina-				
Day of the Week	Month.	the Year		erice. .M.,		met. .x.		rae loon.	Age at Noon.	at I	on ican oon,
			H	M	Ħ.	Ħ	H.	N.	D	] 1	N
Monday	1	122		11	7	1	່ ວ້	36	28 62	14	59
Tuesday	2	123	8	11	7	1	0	86	0 07	15	17
Wednesday	3	124	6	10	7	1	0	36	1 67	15	85
Thursday	4	125	6	10	7	2	0	36	207	15	53
Priday	5-	126	6	9	7	2	, 0	35	3 07	16	10
Saturday	5	127	6	9	7	2	0	35	4 07	16	27
Sunday	7	128	8	8	7	3	0	35	5 07	16	44
Monday	8	129	8	8	7	3	0	35	6 07	17	1
Tuesday	9	130	6	7	7	3	0	35	7 07	17	17
Wednesday	10	131	6	7	7	4	0	85	8 07	17	38
Thursday	11	132	в	6	7	4	0	35	9 07	17	48
Friday	12	133	6	6	7	4	0	35	10 07	18	4
Seturday	13	134	6	5	7	5	0	35	11 07	19	10
Sunday	24	185	6	5	7	5	0	35	12 07	18	84
Monday	15	136	6	6	7	6	0	35	13 07	18	48
Tuesday	16	137	6	4	7	6	0	35	14 07	19	ż
Wednesday	17	138	. 6	4	7	6	0	95	15 0,	19	16
Thursday	18	-	٠	4	7	7	0	35	18 07	19	29
Priday	19	140	6	3	7	7	0	35	1, 07	19	42
Saturday	20	141	6	3	7	7	0	35	18 07	19	55
Sunday	20	142	6	3	7	8	0	35	19 07	20	8
Monday	22	143	6	£	7	8	0	35	20 07	20	20
Toesday	23	144	6	ż	7	9	0	95	2₁ 07	20	32
Wednesday	24	145	6	2	7	9	0	35	22 07	20	48
Thursday .	25	146	8	2	7	9	0	85	23 07	20	54
Priday	26	147	6	2	7	10	0	36	24 07	21	5
Saturday	27	148	6	2	7	10	0	36	25 07	21	15
Sunday	28	149	6	1	7	11	0	36	26 07	21	25
Monday	29	150	6	1	7	11	0	36	17 97	21	35
Tuesday	<b>3</b> 0	151	6	1	7	11	0	86	<b>58</b> 07	21	44
Watnesday	81	161	6	1	7	12	0	86	0 48	21	58
	,	Į.							•		

### Phases of the Moon-JUNE 30 Days.

New Moon
 First Quarter
 In Apoges

1st, 1h 7 3m. A.W 9th, 8h. 29 fee. A.W 4th, 3 Jh. A.W O Fail Moon ( Last Quarter New Moon 10 Perigee 16th, \$5. 11"7m, a.H. \$2nd, 6b. 46 3m, P.H. 80th, 4h 13 4m, P.H. 16th, 8 1h, P.H

	Day of	Day of			Masn	Time,	Moon s		on's		
Day of the Week.	the Month.	the 1 car		inrise.		inset P.M		rue oon	Noon.	at ]	ion Meso oon.
	<u> </u>	! 	н	¥.	=	M	H P	¥	Ð	] 2	1
Thursday	. 1	153	6	1	7	12	0	36	0 48	22	1
Friday	2	154 l	6	1	7	L Z	a	36	1 48	22	•
Saturday	3	155	6	1	7	18	j	37	2 45	22	17
Sunday	. 4	156	6	1	7	18	0	37	3 48	23	34
Monday	3	157	6	1		14	0	3	4 46	22	81
Tuesday	6	158	6	1	7	14	0	37	<b>5 4</b> 8	22	38
Wednesday	7	159	6	1	7	14	0	37	6 43	22	44
Thursday	8	160	6	1	7	15	0	\$B	7 48	22	50
Priday	9	161	0	1	7	15	0	38	8 48	22	56
Saturday	10	162	6	1	7	15	0	38	9 48	23	0
Studey	11.	163	6	1	7	16	0	38	10 48	23	4
Monday	12	164	6	1	7	16	0	38	17 48	28	8
Totaley	18	165	6	1	7	16	0	89	13 48	23	12
Wednesday	14	166	6	1	7	17	0	89	18 48	23	15
Thursday	15	167	6	1	7	1"	0	39	14 48	23	16
Priday	16	168	6	1	7	17	0	89	15 48	25	21
Saturday	37	169	6	1	7	17	0	40	16 48	===	23
Sunday	18	170	•	2	7	18	0	40	17 48	23	26
Monday	19	171	6	2	7	18	0	40	18 48	23	26
Tuesday	20	172	6	2	7	t <b>8</b>	0	40	19 48	13	27
Wednesday	21	178	6	2	7	18	0	40	20 48	23	27
Thursday	22	174	6	8	7	19	0	41	21 48	23	27
Friday	±3	175	6	8	7	19	0	41	22 48	23	27
Seturday	24	176	6	2	7	19	D	41	<b>2</b> 8 48	23	26
Sunday	25	177	6	8	7	19	0	41	24 48	**	25
Monday	26	178	0	8	7	19	0	41	2548	22	25
Tuesday	27	179	6	4	7	19	0	42	28 48	23	21
Wednesday	23	180	6	4	7	20	0	49	27 48	23	18
Thursday	20	181	6	4	7	20	10	42	25 48	23	15
Friday	50	163	6	5	7	20	0	42	20 48	28	18

#### Phases of the Moon-JULY 31 Days

) First Quarter O Full Moon In Apogee 8th, 5h, 23 0m, p,m 15th, 10h, 10 0m, a,m 1st, 9 7h a.m. Last Quarter New Moon In Periges 22nd, 5h, 2 (m. 4.14. 20th, 7h 45 4m 4.14. 15th, 5 8h, 4.14. 2.th 1 (h. 2.31.

	Day of	Day of the	<b>-</b>		<b>Y</b> ean	Moon a	Can's Declina			
Day of the Week.	Month.	the Year	Sunrise A.M.			net. K.		rne XXII.	Age at Noon,	tion at Mean Noon.
		١.	H.	×	H.	¥	H.	×	D	N
Saturday	1	183	6	5	7	20	0	42	0.85	28 9
Sunday	2	184	6	5	7	20	0	42	1 85	23 4
Monday	8	185	6	6	7	20	0	49	2 85	<b>23.</b> 0
Tuesday	4	198	6	6	7	20	0	48	8 85	22 55
Wednesday	6	187	6	6	7	20	ø	48	4 65	22 50
Thursday	6	188	6	7	7	20	0	48	5 83	22 44
Friday	7 [	189	6	7		20	0	44	6 65	22 88
Saturday	в	190	8	7	7	20	0	44	7 85	22 81
Sunday	e	191	8	8	7	20	0	44	8 65	22 25
Monday	10	192	6	8	7	20	0	44	9 85	22 17
Tuesday	11	193	6	8	7	20	. 0	44	10 85	22 10
Wednesday	12	194	6	9	7	20	0.	44	11 85	22 2
Thursday	18	195	6	ę,	7	20	0	44 (	12 85	21 58
Friday	14	196	6	9	7	20	0	44	13 85	21 44
Saturday	15	197	6	9	7	20	0	45	14 86	ž1 35.
Sunday	16	198	6	10	7	19	0	45	15 85	21 20
Monday	17	199	a	10	7	19	0	45	16 85	21 16
Tuesday	18	200	6	10	7	19	0	45	17 85	21 6
Wednesday	19	201		11	7	19	0	45	18 85	20 545
Thursday	20	202	6	11	7	19	0	45	19 85	30 44
Friday	21	203	8	12	7	19	0	45	20 85	20 38
Saturday	22	204	6	12	7	18	0	45	2. 85	20 21
Sunday	23	205	8	12	7	18	0	45	22.85	20 9
Monday	24	206	6	13	7	17	0	45	23 85	19 57
Tuesday	2.5	207	•	14	7	17	0	45	24 85	19 44
Wednesday	26	208	8	14	7	17	0	45	25 86	19 21
Thursday	27	200	6	14	7	16	0	45	26 95	19 18
Priday	120	200	8	14	7	16	0	45	127 83	39 4
Saturday	20	211	6	15	7	16	0	45	28 85	18 50
Sanday	80	212		15	7	15	0	45	0 22	18 24
Menday	31	ns		16	7	15	0	45	1 21	18 22

## Phases of the Moon-AUGUST \$1 Days.

yent Quarter O Full Moon In Perigee 7th, 2h, 35 6m. A.N 18th, 5h, 30 8m p m. 18th, 2 8h. p m € Last Quarter
• New Mood
In Apogee

20th, 6h 28 8m. p.s. 29th, 10h, 54 7m pp. 24th, 10 5h pm

	Day of	Day of			fenn	Time	Moon s	Sun 4 Declins			
Day of the Week.	the Month.	the Year		nrise M		meet. N		MLG XXII	Age at Noon.	at Mean Noon	
		!	H	¥		¥.	P.,	×	D	N	
Tuesday	1	214	6	16	7	14	0	45	g 21	18 7	
Wednesday	2	23.5	8	16	7	14	0	45	3.30	17 52	
Thursday	3	216	8	16	7	14	0	45	4 21	17 35	
Friday		217	6	17	7	13	0	45	5 21	17 250	
Saturday	5	218	6	17	7	13	0	45	6 21	17 4	
Sanday	6	219	6	17	7	12	0	45	7 🛂	16 48	
Monday	7	220	6	18	7	11	0	44	8 21	16 31	
Tuesday	8	221	6	18	7	11	0	44	9-21	16 15	
Wednesday	9	299	6	18	3	11	0	44	10 21	15 58	
Thursday	10	223	6	18	7	10	0	44	11 <b>21</b>	15 29	
Friday	11	224	6	19	7	9	o	44	12 21	15 29	
Separate	12	225	6	19	7	9	0	44	18 21	15 5	
Sunday	13	226	6	19	7	8	0	44	14 21	14 47	
Monday	14	227	6	20	7	7	0	48	15 21	14 28	
Tuesday	15	228	6	20	7	7	0	43	16 31	14 10	
Wednesday	16	2:29	6	20	7	6	0	48	17 21	18, 51	,
Thursday	17	290	6	20	7	6	0	48	18 21		
Friday	18	231	6	21	7	5	0	48	19 21		
Saturday	19	232	6	21	7	4	0	42	20 21	*	
Souday	20	233	6	27	7	3	0	42	21 21	12 84	
Monday	21	284	8	22	7	3	0	42	22 21	12 14	
Tuesday	22	285	6	22	7	2	0	42	23 21	11 54	
Wednesday	23	286	6	22	7	1	0	41	24 21	11 84	
Thursday	24	237	6	22	7	1	0	41	25 21	11 15	
Friday	2.5	238	6	22	7	0	0	41	25 21	10 55	
Seturday	26	239	6	28	6	59	0	41	27 21	10 32	
Sunday	27	240	6	28	6	88	0	40	28 21	10 11	
Manday	28	241	6	23	6	57	0	40	20 21	9 50	
Tuesday	20	242	6	23	8	56	0	40	0 57	9 29	
Wednesday	80	248	6	<b>5</b> 3	•	56	0	39	1 57	9 7	
Thursday	21	244	•	24	•	56	0	30	2 67	8 46	

### Phases of the Moon-SEPTEMBER 30 Days.

 ▶ First Querter
 5th, 9h. 56 5m. A.H.

 ○ Full Moon
 12th, 2h. 0 9m. A.H.

 In Perigee
 9th, 6 9h. F.M.

(\*\*Last Querter\*\*

New Moon

27th, 1h 4 1m. F.M.

In Apogee

21st, 3 1m F.M.

	Day of	Dayo		:	Mean	Moon s	Sun a Declina-				
Day of the Week.	Month.	the Year		inrise.		met.		frae Oon	Age at Noon.	at h	OD Fai
			H.	¥.	H	¥.	P	CATE NO.	a	1	M
Priday	1	245	6	24	6	54	0	88	8 57	9	4ـــــــــــــــــــــــــــــــــــــ
Saturday	2	246	6	24	6	58	0	88	4 57	8	2
Sunday	8	247	6	24	6	53	0	38	5 57	7	40
Monday		248	в	24	8	52	0	38	6 57	,	18
Tuesday	5	249	в	25	6	51	0	37	7 57	в	56
Wednesday	6	250	6	25	6	<b>5</b> 0	0	37	8 57	6	84
Titureday	7	251	б	25	6	49	0	37	9 57	6	12
Friday	8	252	6	25	6	48	0	86	10 57	5	40
Saturday	9	268	6	25	6	47	0	36	11 57	5	26
Sunday	10	254	6	26	6	47	0	86	12 57	5	4
Monday	23	255	6	26	6	46	0	35	13 57	4	41
Tuesday	12	256	6	26	6	45	0	85	14 57	4	18
Wednesday	13	257	6	26	6	44	0	84	15 57	હ	55
Thursday	14	2258	в	26	в	48	0	84	16 67	R	79
Friday	15	259	6	26	6	42	0	34	17 57	3	9
baturder	16	260	6	27	6	41	0	38	18 57	2	46
۹ <sup>4</sup> و	17		6	27	6	40	0	33	19 57	2	28
-	18	261	6	27	θ	39	0	3.9	20 57	2	0
Тпевау	19	263	6	27	6	39	0	32	21 57	1	36
Wednesday	200	264		27	0	38	0	32	22 √7	1	13
Thursday	21	265	6	27	в	37	0	52	28 57	Ð	٠0
Friday	22	266	6	28	6	36	0	31	24 57	0	26
Saturday	23	267	6	28	6	35	0	81	25 57	0	7
Sunday	24	268	6	28	8	34	0	81	26 57	0	30
Monday *	25	269	6	28	đ	83	0	80	27 57	0	44
Tuesday	26	270	6	28	6	33	0	30	28 57	1	7
Wednesday	27	271	6	28	6	82	0	30	29 57	1	81
Thursday	228	272	6	29	6	31	0	20	0 98	1	54
Friday	29	278	6	29	6	80	0	20	1 98	2	17
Saturday	80	274	6	29	6	29	0	29	2 98	2	<b>1</b> 1

### Phases of the Moon-OCTOBER 51 Days.

First Quarter
 Full Moon
 In Portgee

4th 4h. 30 5m, P.M. 11th. Oh 31 1m PM. 7th, 4 Oh A.M. € Last Quarter
 New Moon
 In Apogee

19th, 6h, 36 7m. a.m. 27th, 2h 7 0m. a.m. 19th, 10 7h. a.m.

	Day of	Day of			Mean	Moon :	Sun 4 Declina-				
Day of the Week.	the Month	the Year		mrise. AJC.		net.		rue oom.	Age at Noon.	at i	lon Mean oon
<b>-</b> -			В.,	×	H	×	н	×	D		8
Sunday	1	275	6	30	6	28	0	20	3 98	8	4
Monday	2	276	В	30	6	27	0	28	4 98	8	27
Tuesday	3	277	6	30		26	0	28	5 98	3	51
Wednesday	4	27	6	<b>3</b> 0		26	0	28	6 98	4	14
Thursday	5	279	6	30	6	<b>2</b> 5	0	27	7 98	4	37
Friday	6	280	8	ડા	6	24	0	27	8 98	6	0
Saturday	7	281	6	31	6	28	0	27	9 98	5	23
Sanday	8	282	6	31	6	22	0	27	10 98	6	46
Monday	9	283	6	31	6	21	0	26	11 98	5	9
Tuesday	10	284	6	31	6	20	0	25	12 98	6	32
Wednesday	11	285	6	32	6	19	0	26	1398	6	55
Thursday	12	286	6	32	8	18	0	23	14 96	7	17
Friday	13	287	6	32	6	18	0	25	15 98	7	40
Saturday	14	288	6	33	6	17	0	25	16 98	8	2
Sunday	15	289	в	33		16	ű	25	17 98	8	25
Monday	16	290	6	33	В	15	0	24	18 98	. 8	47
Tuesday	17	<del>2</del> 91	6	8.3	6	15	0	24	19 98		9
Wednesday	18	292	6	34	6	14	0	24	20 98		31
Thursday	19	293	6	84	6	18	0	24	21 98	9	63
Friday	20	294	6	84	6	13	0	24	22 98	10	7
Saturday	21	295	6	35	6	12	a	24	23 98	10	36
Sanday	22	296	6	85	6	11	0	21	24 98	10	57
Monday	23	297	5	85	6	11	0	23	25 98	11	18
Tuesday	24	298	6	35	6	10	0	23	26 98	11	39
Wednesday	25	299	6	36	6	10	0	29	27 98	12	0
Thursday	26	800	6	36	6	9	0	<b>2</b> 3	28 98	12	21
Friday	27	301	6	87	8	8	0	23	0 44	12	41
Baturday	28	502	6	37	8	8	0	28	1 44	13	2
funday	20	303	6	37	6	7	0	23	2 44	18	22
Y code.y	90	904	6	#8	6	7	0	22	3 44	18	42
Passing	31	206	6	28	6	7	0	22	4 44	14	1

### Passes of the Moon-NOVEMBER 36 Days.

F rst Quarter
 Full Moon
 In Perigen

2th, 1th, 20 cm P.M. 10th, 1h. 48 cm A.M. 1st C 3h A M 《 Last Quarter ● New Hoon In Apogee In Perigee 18th, 3h. 50 5m. a.m 25th, 2h. 20 4m. p.m. 16th, 7 5h. a.m 28th, 1 2h a m.

	Day of	Day of		3	fean T	Moon s	Bun s Declina-				
Day of the Week.	the Month.	the Year		rise LL	Sur P.		Tr No	ne on.	Age at Noon.	at 1	ODD
			H.	¥	H.	×	H P.	M	D	   E	;
Wednesday	1	306	6	39	6	в	0	22	5 44	14	21
Thursday	2	307	8	89	6	в	0	22	8 44	14	40
Friday	8	308	6	40	6	э	0	22	7 44	14	59
Saturday	4	309	в	40	6	5	0	22	R 41	15	18
Bunday	6	310	6	41	6	4	0	22	0 44	15	36
Konday	, 6	311	6	41	6	4	0	22	10 44	15	ა4
Tuesday	7	812	8	42	6	3	0	22	11 44	16	12
Wednerday	В	313	6	42	6	3	0	23	12 44	16	30
Thursday	1 9	314	6	43	, 6	3	0	23	13 44	16	47
Friday	10	315	6	43	6	2	0	23	14 44	17	4
Baturday	111	316	6	44	, A	2	0	23	15 44	17	21
Sunday	12	317	8	44	6	2	0	23	18 44	17	88
Monday	13	318	6	45	6	2	0	23	17 46	17	54
Тиевалу	14	319	1 6	45	6	1	0	27	18 44	18	0
Wednesday	í 15	320	6	46	8	1	0	24	19 44	18	25
Thursday	] 16	<b>321</b>	В	47	, 6	3	ø	24	20 44	18	41
Friday	17	<b>322</b>	6	47	6	1	0	24	21 44	18	55
Baturday	18	328	6	48	6	u	0	24	22 44	19	10
Sanday	19	324	ı <b>6</b>	46	6	ú	0	24	23 44	19	24
Monday	20	325	6	49	6	a	0	24	24 44	19	88
Tuesday	21	326	6	49	6	0	0	25	25 44	19	52
Wednesday	22	327	6	60	6	0	0	25	26 44	20	Б
Thursday	23	328 J	в	50	e	9	O	25	27 44	20	19
Friday .	24	329	6	51	6	0	0	26	28 44	220	80
Saturday	25	330	6	51	6	n	0	26	29 44	20	41
landay	275	831	6	52	6	0	0	26	0 93	20	54
Konday	27	832	8	58	6	0	0	26	1 93	\$1	5
Pateday	28	338	6	54	6	0	0	27	2 93	21	16
Wédnesday	20	884	0	54	6	0	)   0	27	3 98	21	27
Dunglay	20	335	6	55	8	0	,	27	4 93	91	27

### Phines of the Moon-DECEMBER 31 Bays.

> First Quarter
O Full Moon

In Apogee 14

2nd, 7h. 25 5m. A.m. 9th, 6h 18 9m. P.m 14th 2 3h A.m C Last Quarter
New Moon
First Quarter
In Perigee

17th, 11h, 26 am, p.m. 25th, 2h 1 2m, am. 31st, 5h 37 2m, p.m. Peth 6 0h a.w

	Day of	Day of	1.		Mean	Moon		Bun's Declina-			
Day of the Week.	the Month	the Year		nrise m		neet.		rue Col.	Age at Noon.	at	ion Mear oon,
	:		R	¥	H.	¥	H _	×	D	1	8
Friday	1 1	336	В	56	6	0	o <sup>r</sup>	<b>~2</b> 8	5 9:	3   21	40
Saturday	2	337	6	56	6	1	. 0	28	6 93	21	56
inday .	3 ,	338	6	67	6	1	0	29	7 95	.   22	4
fonday	4	539	•	57	6	1	0	29	8 9 8	22	13
weeday	5	340	ď	58	6	1	0	20	993	22	21
Fednosday	6	341	6	59	6	1	0	80	10 93	22	28
Physodav	7	842	6	59	6	1	0	30	11 98	22	35
riday	8	343	7	0	6	2	0	31	12 93	22	42
atarday	9-	344	7	1	6	2	0	83	13 98	22	48
mday	10	<b>\$4</b> 5	7	1	6	2	0	32	14 98	22	54
fonday	11	346	7	2	6	J	0	32	15 98	22	59
Tuesday	12	947	7	2	0	8	0	32	16 9	23	4
Vednesday	13	348	7	3	6	3	1 0	33	17 93	23	9
Junday	14	349	7	3	6	4	1 0	33	18 93	23	12
riday	15	350	7	4	6	4	0	34	19 93	23	16
atorda <sub>f</sub>	16	351	7	J	6	4	0	34	20 93		19
<b>unda</b> y	17	352	7	5	6	5	, 0	85	21 93		र्घ
<b>londay</b>	18	358	7	6	6	5	0	35	22 9	1	Ġ.
mentsy	19	354	7	6	6	6	0	3-6	28 93	` <b>†</b> 23	25
Kedenendary	186a	354	7	τ	١.	•	اه	AE	24. 93	. 🕴 🖘	34
Thursday	21	356	7	7	6	7	0	37	25 94	23	27
riday	22	857	7	8	6	7	0	37	26 93	23	27
i <b>aburday</b>	23	358	. 7	8	0	8	o	38	27 93	<b>2</b> 3	27
lenday	24	359	7	9	6	8	0	38	28 93	2:8	28
Scuday	25	860	7	9	6	9	0	39	0 45	28	25
Toniday ,	26	861	7	10	6		n	39	1 4	23	23
FoGGorday	27	362	7	10	6	10	0	40	2 45	28	21
bunday	28	368	7	11	6	10	0	40	3 45	23	18
'siday	29	364	7	11	6	11	0	61	4 45	23	15
sterday	30	365	7	11	•	12	0	41	5 4	<b>9</b> 3	12
ende y	31	366	7	12		12	0	49	● 45	23	8

3 M Fu W Th	1 2 3	1 7															
V4 Γu V Γh	2	1 7	Јаннату						July.								
•	5 6	8 9 10 11 12 13	14 15 16 17 18 19	21 22 23 24 25 26 27	28 29 30 31		M Tu W Th F	**	3 4 5 6 7	8 9 10 11 12 13 14	15 16 17 18 19 20 21	22 23 24 25 26 27 28	30 31				
		Febr	uary	,			_			Au	gwst			_			
\$ M Lu W Th		4 5 6 7 8 9	11 12 13 14 15 16	18 19 20 21 22 23 24	25 26 27 28	**	M Tu W Th F	*	1 2 3 4	5 6 7 8 9 10	12 13 14 15 16 17	19 20 21 22 23 24 25	26 27 28 29 30 31				
<u> </u>		<u> </u>	rch		!	<del>`</del>	-				mbei		<u>-</u>				
		4 5	11	18	25 26		S M		,	3	9	16	23	30			
Cu V Th	I 2	6 7 8 9	13 14 15 16	20 21 22 23	27 29 30	, 	Tu W Th F		[ [	4 5 6 7	112	18 19 20 21	25 26 27 28	   			
<u>'</u>	1 3	10	17 	24	31		<u>s_</u>		1		15	22	29				
	1 I	_ <b>Ap</b>	1 15	22			<b>B</b>			Octo	14	, 27	28				
Tu V	3 4 56 7	9 10 11 12 13	15 16 17 18 19 20 21	23 24 25 26 27 28	29 30 ~		M Tu W Th F		1 2 3 4 5 6	8 9 10 11 12 13	15 16 17 18 19	22 23 24 25 26 27	29 30 31				
			ap								mber						
( `u `h.	3 4 5	6 7 8 9 10 11	13 14 15 16 17 18	20 21 22 23 24 25 26	27 28 29 30 31		M Tu W Th F S	,,	I 2 3	4 5 6 7 8	11 12 13 14 15 16	18 10 20 21 22 23 24	25 26 27 28 29 30				
	<u> </u>	Ju							i	Decei							
l u / h.	1 2	3 4 5 6 7 8 0	10 11 12 13 14 15	17 18 19 20 21 22	24 25 26 27 28 29	••	M Tu W Th F	pr 144 pr		3 4 5 6 7	9 10 11 12 13 14	16 17 18 19 20 21	23 24 25 26 27 28 29	30 31			

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### India in 1915.

When the war broke out the general expection in India was that it would be of brief attom. The warnings of those who appreced the magnitude of the interests which many had at stake, the claborators, or preparations which she had made to achieve me and the tenancity which was revealed by Prussians in the Even Years War were ided they were swept aside by those who dieted an early and comple victory. It uld be idle to pretain that the successes the German arm! In the East of Furope I the inability of the Allies to wrist more as if willies at a time from the for in the st, with the could not that this must be ser of attriction did not produce a raction in patture of depression. It has not produced alightest weakening of the determination India to d vote her whole resources to the root of the Empire to bring the war to a crearly conclusion.

The war has come home to India in no ap clable degre Over two hundred thousand one hav been sent to the various theatre the struggle The cream of Briti h numbered the country has been embodied in the R oc of Officers. A perpetual stream of rein re-ments has passed through the aports beignly Bombay and Karachi a crunter warm or wounded and sick has returned from e Front But India is in some re pects a llitary State The Army in peace they cupies a much more important piace in the irk of the administration than it does in the Prior of the administration than it does in this little Kingdom Consequently the amount improvisation has been much smaller, the isting matherly has been a simple of the control of the c the bloom of the principal commoditie as a subney had been plantial and sonably chan bankers have complained a phthora of funds. Not once has the all steamer fauled to bring its weekly budget. news not our has the cable eith r broken own or beer interrupted Then the fortunes the land have been in the a unidant. The st year of the war witnessed one of the most sunteous harvest in recent history and halla an agricultural country is still dependent on the crops. There were many anxious onths in 1915 when the creatic character the monspon see med to presage acute scarcity certain are se in the West and famine in parts the Punjah Late rains of simost unpre-dented volume however eaved the situation K harvost will be good over the greater part India, and scarcity will be confined to small

Behind this tranquil exterior there are ourse strong forces at work. The strain twar is increasingly felt with the probongation I the war. Hitherto India has escaped any iditional taration it is almost certain that war tax will be imposed in the next Budget.

Whilst economy has been exercised by depend ing on borrowings India has during the curn at year maintained an active programme of public works and an average expenditure on education and sanitation The London money market is closed to India and as her resources are limited the borrowing programms will be cartailed and the public works operations Limited consequently proportionately diminished Fur-ther and rigid economy will have to be prac-There are that in all public departments sions that the actual shock of battle may be brought mearer to India. The advent of Ger many into the Balkans may well mean further attacks on the Suez Canal and increased Turstrates of the Supz annual and the latter tegion the programs of a force wholly provided and equipped by India has been brilliant in the fare of the most severe climatic and natural obstacles the small forces assembled have expelled the Turk from Southern Meso rotamia and have conquered Irak, The political true loyally observed by all parties has evidently grown unattractive to some alirits and there are signs of a revival of polit! cal activity which siming at the political growth of India does not desire to wait until the cud of the war for the numbery action Then we have had in the evidence during the trial of the Lahort conspirators and the contmuants of anarchical activity in Bengal proof of the existence of a small band of anar others in India determined to try and overment the British Gov ramant even if it has to plunge the country in a chaos in order to achieve it

When how ver three symptoms appear we hav to some it the size of India and the nature of its government. India is not a single homog mone country it is a continent occupied to yeogle wide as the Poice acquier. It emanages there hindred and fiftern millions of popis a growing proportion of whom accedirected in "onell in and imburd with the idean reflected in English literature. It is in vitable that In such circumstances the steel of political growth we have implanted should desire to flourish. It was whely said by an indian administrator that in time of war there must be a fix mad dogs about. The matter for surprise is that they have been so few.

They frature in the Indian situation have been briefly touched upon because if they are not understood they will cause misunder standings, when they are manifested. They are the Inevitable outcome of Indian conditions and of the political growth even in wartine of a great and varied country. They do not present any problem that need cause makets during the war in the opinion of many competent to judge they do not present any problem beyond the capacity of resolute any problem beyond the capacity of resolute any do not affect by one lots, the determination of India to see this war through as a level, devoted and sold component of the British Empire

### The History of India in Outline.

No history of indus can be proportionate, and the briefast scientary must suffer from the same defect. Even a wholesale acceptance as history of mythology tradition, and folklore will not make good, though it makes ple turesque, the many gaps that exist in the early kintery of India and though the laboure of modern geographers and archaeologists have been amazingly fruitful. It cannot be expected that these gaps will ever be filled to any appreciable where gaps will ever be intend to any appreciative extent. Approximate sociaracy in chronology and an outline of dynastic facts are all that the student can look for up to the time of Alexander though the brickest excursion into the by wave of history will reveal to him many alluring and mysterious fields for speculation There are, for example to this day eastes that believe they sprang originally from the loins of a being who landed "from an impossible boat on the shores of a highly improbable are and the great epic poems contain plentful state-ments equally difficult of reconclisation with modern notions of history as a science. But from the Jakaka stories and the Puranas, much valuable information is to be obtained and for the benefit of those unable to go to these and other original sources, it has been

distilled by a number of writers.
The orthodox Hundu begins the political The orthogon Hindu begins the pointing history of India more than 3000 years before Christ with the war waged on the banks of the funns between the sons of Kuru and the sons of Pandu but the modern critic prefers to amit several of those remote centuries and to take 600 B C., or thereabouts as his start ing point. At that time much of the country ing point, mag point. At that time much of the country was covered with forcet but the Arvan mers who had entered India from the north had established in parts a form of civilization far superior to that of the aboriginal savages and to this day there survive cities like Benares sounded by those invaders in like manner bonneed by consentiations in the manner the Dravidian invaders from an unknown hand who overtan the Decean and the Scothern part of the Peninsula creshed the shorkines, and, at a much later period were themselves embdued by the Aryans. Of these two civiliz ing forces, the Aryan is the better known and of the Aryan kingdoms the first of which there is authorite record is that of Magadha or Bibar on the Ganges. It was in or near this power fal kingdom that Jainism and Buddhism had their origin and the fifth King of Magadha Bimblears by name, was the tried and patron of Gautama Baddha. The King mentioned was a contemporary of Darina, autocrat of Pereia (521 to 485 B C) who annexed the Indus valley and formed from his conquest an indian mirrapy which paid as tribute the equivalent of about one million sterling De tailed history however does not become pos-mble until the invasion of Alexander in 326B C

#### Alexander the Great.

That great soldier had crossed the Hindu Kush in the previous year and had captured Aornos. on the Upper Indus. In the spring of \$26 be of his palace may throw yet more light on his crossed the river at Ohind received the sub-massion of the King of Taxila and marched "Inglorn fell to pieces. Even during his gashest Forus who ruled the fertile country reign there had been signs of new forces at work between the rivers Hydaspes (Jhelum) and on the borderland of India, where the inde-

No history of India can be proportionate, Akesines (Chenab) The Macedonian carried at the bricket summary must suffer from the all before him, defeating Porus at the battle of the Hydroges, and crossing the Cherab and Ravi. But at the River Hyphasis (Blas) his weary troops mutibled, and Alexander was forced to turn back and retire to the Juelum where a feet to sail down the rivers to the sea was nearly ready. The wonderful story of Alexander's march through Mekran and Persia Agrander's mand valuege, wherein any reises to Babylon and of the voyage of Nearchus up the Perelan Gulf is the climax to the narrative of the invasion but is not part of the history of India. Alexander had stayed nineteen months in India and left behind him officers where the Company of the light of the history of the Company of the montes in 16th and are beined nin officers to carry on the Government of the kingdoms he had conquered but his death at Babylon, in 323 destroyed the fruits of what has to be regarded as nothing but a brilllant raid, and within two years his successors were obliged to leave the Indian provinces heavily scarred

by war but not hellenized

The leader of the revolt against Alexander s The leader of the revolt against Alexander as generals was a young Hindu Chandragupta, who was an illegitimate member of the Royal Family of Magadha He dethrond the relate of that kingdom and became so powerful that he is said to have been able to place 600 000 troops in the field against Sciences, to whom Babylon had passed on the death of Alexander This was too formidable an opposition to be faced and a treaty of peace sition to be laced and a treaty of peace was concluded between the Syrian and Indian monarchs which left the atter the first paramount Boverign of India (821 B C) with his capital at Patalipotes the modern Patas and Bankipore. Of Chandragupta's court and an ministration a very full account is preserved in the fragments that remain of the history considering the Marchine transland. compiled by Megnathenes the ambassador sent to India by Seleucus. His memorable reign suded in 297 B C when he was auc reign moded in 227 E C when he was suc-coded by his son Bluduaara who in his turn was succeeded by Asoka 1950—231eB C) who recorded the events of 's reign on numerous inscriptions. This king in an unusually bloody war added to his dormalons the king dome of Kalinga (the Northern Chrean) and then becoming a convert to Buddhism resolved for the future to abstain from conquest by for the future to assessment from conquers or force of arms. The consequences of the conversion of Asoka were amazing. He was not intolerant of other religious, and did not en deavour to force his creed on his children But he initiated measures for the propagation of his doctrine with the result that Buddhism, which had hitherto been a merely local sect in which had hitherto been a mersly local sect in the valley of the Ganges, was transformed into one of the greatest religions of the world—the greatest, probably, it measured by the number of adherents. This is Asoka a claim to be remembered this it is which makes his reign an epoch not only in the history of India, but in that of the world. The wording of his edicts reveal him as a great ling as well as a great missionary and it in to be hoped that the excavations now being carried on in the rains of his nakes may throw yet more light on his

endent kingdoms of Bactria and Parthia had carried on a considerable trade with Greece, sen formed and subsequent to it there were Egypt and Rome, as well as with the Bast. een formed and subsequent to it there were somet Greek raids into India. The Greeks equent ereex rans into india. The Greeks is Ractia, however could not withstand the renwhelming force of the westward migration of the Yueh-chi horde which, in the first century A D also outsed the Indo-Parthan kings rom Alghanistan and North Western India.

The first of these Yuch-chi kings to annex a The first of these Yuch-onl kings to annex a part of India was Kadphises II (A D 85-125) who had been defeated in a war with China but crossed the Indua and consolidated his power eastward as far as Benares His son Kaulshka (whose date is much disputed) left. a name which to Buddhists stands second only to that of Asoka. He greatly extended the to that or asons in greatly extended the boundaries of his empire in the North and made Peshawar his capital. Under him the power of the Kushan clan of the Yuch-chi reached its south and did not begin to decay until the end of the arcond century concurrently with the rise in middle India of the Andhra dv nasty which constructed the Amaravati stups one of the most elaborate and precious monu

ments of piety ever caised by man

#### The Gupta Dynasty

Early in the fourth century there arose at Pataliputra the Gupta dynasty which proved of great Importance Its founder was a local on greate importance. Its founder was a local chief hi, son Samudragupta who ruled for some fifty years from A D 326 was a king of the greatest distinction. His aim of subduing the greatest distinction. His aim of subduing all India was not indied fulfilled but he was able to exact tribute from the kingdoms of the South and even from Cevion and, in addl tion to being a warrior he was a patron of the arts and of Sanskrit literature. The rule of his son Chandragupta was equally distin-guished and is commemorated in an inscription on the famous fron pillar near Delhi, as well as in the writings of the Chinese pligrim Falken m one writings of the chinese pilgrim. Ea hier who pave a creat tribute to the equibil administration of the country. It would not be a fifth central to the fifth central to the fifth central to the white a country of the white head of the White India was one of great confusion marked only by the rise and fall of petty king dome until a monarch arose, in 4 D 608 capable of consolidating an Empire This was the Emperor Harsha who from Thansaer near Ambala conquered Northern India and extended his trritory South to the Nerbodda Imitating Asoka in many ways, this Emperor yet full no embarasement in paying adoration in turn to Siva, the Sun and Buddha at a great public eversmontal." Of his times a graphic picture has been handed down in the work of a Chinese 6 Master of the Law Huen Tstang by name. Harsha was the last native para mount sovereign of Northern India on his death in 648 his throne was usurped by a Minister whose treacherous conduct towards an embassy from China was quickly avenged; and the kingdom so ishoriously established lapsed into a state of internective strife which lasted for a century and a half

A D. and a number of new dynastics, of which A D. and a number of new dynamics, of which the Pallavas were the most important, began to appear. The Pallavas made way in turn for the Chalukyas who for two centuries remained the most important Decean dynasty, one branch uniting with the Choias. But the fortunes of the Southern dynastics are so Involved and in many cases so little known tast to recount them briefly is impossible. Few names of note stand out from the record, except those of tikramaditys (lith century) and a few of the later Hindo rulers who made a stand against the growing power of Islam of the rise of which an account is given below in fact the history of medieval India is singu-larly dvoid of unity Northern India was in a state of chaos from about 550 to 900 A D a state of chaos from about 630 to 9.0 A D not unlike that which prevailed in Europe of that time and materials for the listory of these centuries are very scartly. In the absence of any powerful rulers the jungle began to gain back what had been wrested from it anticat capitals (cil into rules from which in some cases they have not even yet been disturbed and the aborigines and various foreign tribes began to assert themselves so successfully that the Arvan el ment was chiefly con fined to the Doah and the Eastern Punjab It is not then fore so much for the political as for the religious and social history of this anar for the religious and social instory of this again, which period that one must look. And the greatest event—if a slow process may be called an event—of the middle ages was the transtion from tribe to caste the final disappear ance of the old four fold division of Brahmans, Kahstriyas, Valsyas, and Sudras and the formation of the new division of pure and impure largely resting upon a classification of occupations But this social change was only occupations at the second range was only a part of the development of the Hindu religion into a form which would include in its cribrace the many barbarlans and foreigners in the country who were outside it. The great political event of the period was the rise of the by 450 the dynasty has a Rajputs as warriors in the place of the Kshattri following century all over yas. Their origin is obscure but they appeared in of great confusion apparently the 8th century and spread, from thir two original homes in Rapputana and Oudh into the Punjab Kashmir and the Central Hima lavas, assimilating a number of fighting clans and binding them together with a common and binding their together with a common code. At this tim, kashmir was a small king dom which exercised an bifinence on India wholly disproportionate to its size. The only other kingdom of importance was that of Kanaut—in the Doah and Southum Oudh which still retained some of the power to which it had reached in the days of Harsha, and of which the renown extended to China and Arabia.

With the end of the period of anarchy the political history of India centres round the Rajputs. One clan lounded the kingdom Gujarat another held Malwa another (the Chanhann) founded a kingdom of which Ajmer the critical and no on Kangui full into lapsed into a state of intermedine strife which larted for a century and a half

The Andhras and Raiputs.

In the meantime in Southern India the Andhras had attained to great presperity and century the Chauhans were united, and by and forts of the Rajput states and in the two and forts of the Rajput states and in the two press philosophical systems of Sankarchards and a life capital at Vijavanagar. Of importance allows the order of Binduism had been added at the expense of one of his successors who cruahed the Vijava Buddhism, which survived only in Mascadha at magar dynasty and built the great mosque for the times of the Mahomedan conquest, and which Bijaput is Iamous. specdily disappeared there before the new faith

#### Mahomedan India

eventually swept over the country first tou hed lindis in Sind less than a hundred wars after the death of the Prophet to 632. But the first real oratect was in th tenth crottary when a Turkish lave of a Pursian ruler found of a kingdom at Ghazni between kabul and Kandahar A descendant of hi Mahmud (967 1030) made repeated raids into the heart Nultan Kanauj Gwallor and Somnath in Kathlawar but permanuntly occupying only Rathlawar but permanently occupying only a part of the Punjab Enduring Mala medan rule was not established until the end of the twelfth century by which time from the little territory of Ghor there had arisen one Mahomed Obori capable of carving out a kingdom at teh onion capacity of carving out a kinggoin of Lengal ing from Peshawar to the Bay of Lengal Prithwi Baj the Chauhan ruler of Delhi and Afmer made a brave stand against and once Aftiner made a brave stand against and once dietested one of the armies of this rul r but was himself defeated in the following v ar Mahomed Ghorl was murdered at Lahore (1200) and his vest kingdom which had been governed by satraps, was split up into what were practically independent sovereignits. Of these satraps, Qutb ud-dim the slave rule, of Delbi and Lahorn was the most famous. of Delh and Labor was the most famous, and is remembered by the great mosque he built near the modern Delhi. Letwern his rule and that of the Mughais, which began in 1522 only a few of the many kings who governed and fought and built beautiful build lang, stand out with distinction. Our of these Ala-ud-din (1296 1316) whose many (x peditions to the south much weakened the Hindu Kings and who proved himself to be a

1163 one of them could beast that he had conquered all the country from the Vindhyas to the Rimshyas, including Delhi already a fortness a hundred years old. The son of this control of Ahmad Shah the foundar queror was Prithwi Raj the champion of the Rindhan agalosis the Riabonedana. With his franciscus aboved himself a good ruler and bullder as well as a good soldier though his franciscus aboved himself a good ruler and bullder as well as a good soldier though his franciscus aboved himself a good ruler and bullder as well as a good soldier though his franciscus allowed himself a good ruler and bullder as well as a good soldier though his franciscus allowed himself a good ruler and bullder as well as a good soldier though his franciscus allowed himself a good ruler and bullder as well as a good soldier though his franciscus allowed himself a good ruler and bullder as well as a good soldier though his franciscus as on land. In the south various kings of the Bahmani dynasty made names for themselves there is a splendid memorial in the temptes and forter of the Rajour states and in the temptes. as on and In the South various kings of the Bahmanil dynasty made names for the medwas expecially in the long wars they waged on the new Hindu kingdom that had arise which had

#### The Mughal Empire

As one draws near to modern times it be-The wave of Mahomedan invaders that comes impossible to prosent anything like a coherent and cons cutive account of the growth of India as a whol D tach I threads in the story have to be picked up on by one and fol lowed to the ir ending and although the sixteenth century saw the first European settlem ats in India, it will be convenient here to continue the narrative of Mahomedan India almost to the end of the Mughal Empire. How Bahar gained Iselli has already been told. His son Humayan greatly extended his kingdom, but was eventually defeated (1940) and driven into exil by the r Khan an Afghan of great apabilities, whose short r ign ended in 1945. The Rur dynasty thus founded by the r Khan lasted another tony are when Humayon baying snatched Labul from one of his brothers, was strong enough to wan back part of his old king dom. When Humayun did (1556) his eldest dom. son Akbar was only 13 years old and was con-fronted by many rivals. Nor was Akbar well fronted by many rivals. Yor was aktor weight served but his career of computes was almost uninterrupted and by 1594 the whole of India North of the Norbuida had bowed to his authority and he subsequently entered the Lebits and captured Ahmediagnar This rest ruler who was as remarkable for his religious tolerance as for his a "Blazy provess religious tolerance as for his Thany provess died in 16th leaving behind h. n a wacrd that has been surpassed by few. His son Jehanghr, who married the Fernian hady Nur Jahan, ruled until 1627 bequeath-sog to an admiring posterity some notable buildings—the tomb of his father at Sikandra, part of the paisee at Agra and the paisee and forterss of Lahner lils son, Shahjahan was for many years occupied with wars in the Diecan but found time to make his court of ineredible meanifa asses Hindu alogs and who proved himself to be a lipled with wars in the Dectan but found time capable administrator Another was First to make his court of incredible magnificance Shah, of the hour of Tughlad, whose administs and to build the most fashous and beautiful of tradion was in many respects admirable but all tombs, the Taj Mahal as well as the fort which ended on its abdication in confusion palace and Juma Masjid at Delhi The In the region of his successor Mahmund (130s) guarrels of his some led to the c position of 1413) the kingdom of D his wept to pleers and Fanhaphan by one of them Auragand in 1868. India was for even months at the mercy of the This Empirors rule was one of constant Tarkind conqueror Taimur It was the end of lutrique and fighting in every direction, the fitted between the best of the transfer of the fitted on the transfer of the transfer of the fitted on the f Shandar Lodi began to recover His son the fingdom that had been recreated but was defined by Decean who under the leadership of Sivai, that had been recreated but was defined by Decean who under the leadership of Sivai, Babar, King of Kabul, at Panjan, near Delh, in 1536, and there was then established in Indian the Haghal dynasty.

The Habormedan dynastics that had ruled in the north had been recreated but was unable to bold his sapitals other than held up to this date. Empire for which his three sons were fighting could not be held together Internal disorder could not be held together. Internal disorders and Marstha encrosenharits continued during the reigns of his successors and in 1739 a fresh danger appeared in the person of Nadir Shah the Persian conqueror who cargied all before him. On his withdrawsi leaving Mahomed Shah on the thront the old intrigues recommenced and the Marathas began to make the most of the opportunity offired to them by pupper rulers at Dilhi and by almost uni-versal discord throughout what had been the Mughai Empire There is little to add to the history of Mahomedan India Emperors continu ed to reign in name at Delhi up to the middle of the 19th century but their territory and power had long since disappeared being swallowed up either by the Marathas or by the British

#### European Settlements

The vovage of taseo da Cama to India in 1498 was what turned the thoughts of the Portuguese to the formation of a great Empire in the East. That idea was soon realized for from 1500 convards, constant expeditions were not to India and the first two verrous in India—Almeida and Albuquerque—laid the foundations of a great Empire, and of a great trade mostepoly flow taken in 1510 became the capital of Portuguese India and rumains to this day is the hands of its captors and the countless rules of churches and forts on the shores of Western India as also farther East at Malacea testify to the zeal with which the Portuguese end avoured to propagate their rilation and to the can they took to defend their settlements. There were great soldiers and great initiationaries among them—Albuquerqui da Cucha da Castro in the former lass, St. Francia Lavier in the latter But the glory of Empire loses something of its uniter when it has be past for and the constant drawn and money from Postant distances. The success of the attacks make increase the attacks make increase and malays. The junction of with Sp. 1 lasted from loss to 1840 also tends and dealought of the Eastern Em. at Malacca testify to the zeal with which the with Sp. be downfall of the Eastern Em also lends——of dewitall of the Eastern Em-pire and when Portugal became independent again it was useque to the task of competing in the East with the Dutch and English. The in the East with the Dutch and English. The Dutch had little difficulty in wresting the greater part of their territory from the Portuguese but the second guese but the seventeenth century naval warwith England forced them to relax their hold upon the coast of India and during the French wars between 1795 and 1811 England took all Holland's Eastern possessions and the Dutch have left in India but few traces of their civi lisation and of the once powerful heat India Company of the Netherlands The first English attempts to reach India

date from 1498 when Cabot tried to find the date from 1400 when Cabot tried to find the North-West passage and these attempts were no function and the state of the North-West passage and these attempts were no function to be a state of the stat

sea fight off Swally (Suvall) in 1612. first factory at Burst was for many The first factory at Burst was for many years the most important English footbold in the East Its establishment was followed by others, including Fort St George Madras, (1640) and Highll (1651) In the luttory of these early years of British enterprise in India the cession of Bombay (1881) as part of the dower of Catherine of Braganza stands out as a land mark it also illustrates the weak ness of the Portuguese at that date since in return the King of England undertook to pro-ter the Portuguese in India against their focs—the Marathas and the Dutch. Cromwell, fore—the Marstinss and the Dutch. Cromwell, by his treaty of 1654 had already obtained from the Portuguese an acknowledgment of England's right to trade in the East and that right was now threatened not by the Portuguese but by Sivaji and by the general disorder prevalent in India Accordingly in 1686 the Company turned its attention to acquiring territorial power and announced its intention to establish such a pokey of civil and milliary power, and create and seener its intention to establish such a policy of civit and military power and create and secure such a large revenue as may be the foundation of a large well grounded, were English dominion in limits for all time to come. Not much came of this snoonecrount for some time and no stand could be made in Bengal are lightly to describe the appropriate that describe the description of Austrantic Theorems. lime and no stand could be made in Bengal against the diproductions of Aurangare The foundations of Calcutta (1890) could not be laid by Job Charnock until after a humilisting peace had been concluded with that Emp ror and owing to the difficulties in which the Company found itself in England, there was little chance of any immediate change for the better. The union of the old East India Company with the new one which had been formed in rivalry to it took place in 1708 and for some years peaceful development followed for some years peaceful development followed though Bombas was always exposed by sea to attacks from the prates who had many strongholds within casy reach of that port, and on land to attacks from the Marathas. The tatt r danger was felt also in Calcuttather the control of th numerous roa reactions like that led by height in Bombay threat ned to stille the bright softlements. The public health was bad and the rate of mortality was at times appailing. To cope with such conditions strong men were needed and the Company was in this respect peculiarly fortunate the long list of its servants, from Oxender and Aunustra to Hastings and Bastings are excession. long list of its servants, from Orenden and Aungler to Hastings and Rames, contains many names of men who proved themselves good rulers and far-sighted stateams the finest Emphre-builders the world has known Attempts to compete with the English were made of course But the schemes of the Emperor Charles VI to secure a share of the

Emperor Charles VI to secure a share of the Indian trade were not much more successful than those made by Sectland, Dennart, Swoden and Russia. By the French who founded Pondicherry and Chandermagors to-wards the end of the 17th century much more was schioved, as will be seen from the follow

ry had intervened with success and whin Madras was captured by a French squadron under La Bourdonnais (1746) Duplets wished to hand it over to the Nawab of Arcot—a deputy of the Nizam s who ruled in the Caratic The French however kept Madras, repelling an attack by the disappointed Nawab as well as the Reitze Attornatic The as well as the British attempts to recapture it. The treaty of Alx la Chapelle restored Madras to the English. The fighting had shown the indish powers the value of European troops, and this was again shown in the part French war (1756-54) when Clive achieved enduring fame by his capture and subsequent defined of Arest. This war arose from Dupletz supor Arost This was also troin papers and porting candidates for the disputed successions at Arost and Hiderabad while the English at Madras put forward the frown nominees. One of Dupl ix s officers the Marquis perween orms and materials, was granted to the French This teritor. however was cap-tured by the English in the savet years war (1750-03) Duplets had by then been re-called to France Latty who had been sont called to France Laily who had been son to drive the Engish out of India captured. Fort St David and invested Madras. But the welcopy which Colonel (Sir Evre) Coote won at Wandiwash (1°50) and the surrender, of Pondieberry and Gingee put an end to th French ambitions of Empire, in Southern India Pondich try passed more than once from the to its present existence as a French colony in ministure

#### Battle of Plassey

While the English were fighting the third French was in the South they because involved in grave difficulties in Bengal where Sirajud Daula had acceded to power The head quarters of the English at Calcuta were threatened by that ruly who demanded they should surroud r a refugee and should cease building fortifications. They refused and he marched against them with a large army some of the English took to their ships and made off down the river the rest surrendered and were cast into the jall known as the "Black Hole" From this small and stilling Buck Hose from the sman and soming room 23 persons out of 146 came out alive the next day Clive who was at Madras, immediately sailed for Calentia with Admiral Watson a squadron recaptured the town (1757), and as war with the French had be n proclaimed, proceeded to take Chanderna gove The Vawah Siraj nd Bania then took gove The Vawab Siraj nd Dania then took the side of the French, and Clive, putting forward Mir Jajar as candidate for the Nawab s harmen and sear as capitage for the Nawah and Shrope, marched out with an army combining of 900 Europeans, 2,000 supply and 3 pieces of artillery against the Nawah's host of over

strong position in Southern India, which had at Murshidsbad, and the price of this honour become independent of Delhi and was divided was put at \$2,340 000 in addition to the grant hat othere large States—Hyderabad Tanjorr to the Company of the land round Calcutta and Mysore—and a number of petty states and Mysore—and a number of petty states now known as the District of the twenty four under local chieftains. In the affairs of these States Dupletx when fovermor of Fondicher was appointed Covernor of Sengal and In that expacity sent troops against the French that expacilty sent through against the French in Madras and in person led a force against the Oudh army that was threatening Mir Jajar in each case with success From 176 to 1765 Cive was in Figland. During his absence the Council at Calcutta deposed Mir Jafar and, for a price put Mir Kasim in his piace. This ruler moved his capital to Monghyr organized an army and began to intrigue with the Nawab Wazir of Oudh He says from the directs over carteria disc. soon found in a dispute over customs dues. an opportunity of quarrelling with the English and the first chots fixed by his followers were the signal for a general rising in Bengal the signal for a schotal rosing in sampar About 200 Englishmen and a number of sopoys were massacred but his trained regiments were defeated at Gheria and Oosley nullah and Essens at Arcor and the result forward the frown norm. He hash sought protection from the Nawab nees. One of Dupl-ix s officers the Marquis of Outh But in 1764 after quelling a sepoy de Bussy persuad d the Nizam to take into muthor in his own camp by blowing 24 ring his pay the army which had established his leaders from the guns Major (Sir Hretor) power and in return the Northein Circars (Munro def ated the joint forces of Shah Alam, power and in return the Northein Chrones Munro del ated the joint loctice of client appears between Orisa and Madras, was granted to the the Mughal Emperor and the Nawho of Oudh French This territors however was cap- in the battle of Buxar In 1765 Clive (now Chrones and Chrones Baron Clive of Place ;) returned as Governor Two landmarks stand out in his policy First Two landmarks stand out in his policy. First he sought the substance although not the name of triftorial power under the fletion of a grant from the Muchal Empror Second, he de had to purify the Company's service by prohibiting Illicit gains, and by guarantecing a reasonable pay from honest sources. In neither respect were his plans carried out by his mineralist successors. But our efforts towards a sound administration due from this excend Gov morship of Chive as our mintary supremacy dates from his victory at Placery Before the from his victory at Placery Before the from India, a 170, he had radjusted the privations of Government in Bengal by which the English couldness the contract the contract the contract and distributed the riceived the revenues and maintained the army while the criminal jurisdiction was vested in the Nawab The performance of his second task the purification of the Company's writer was hotly opposed but carried out He died in 1774 by his own hand the Rouse of Commons having in the previous year een sured him though admitting that he did render great and my ritorious services to his country "

#### Warren Hastings.

The dual system of government that Clive had set up proved a failure and Warron Hastings was appointed Governor in 1772 to carry out the referms actiled by the Court of Directors which were to give them the entire care and administration of the revenues Thus Hastings had to undertake the administrative organization of India, and in apite of the fac-tious attitude of Philip Francis, with whom he fought a duel and of other members of his Counthrone, marchia out with an array combining fought a due and of other members of his Common 900 Europeans, 2,000 suppoys and 8 pieces of the reorganized the civil service n.legrand of stillery against the Nawab's host of over 150,000. The result was the historic battle of proved the financial postion of the Company, Planery (June 23) in which Cive, after heaf sating on the course to be pursued, routed ance of a police force, From 1773 to 1774 be 1774 be 178 he. he was the Mast tovernor-teners, normated under an Act of Parlisment passed in the previous year. His financial reforms, and the forced contributions he enseted from the robellous Chet, Singh and the Begam of Oudh, were interpreted in England as acts of oppression and formed together with his a tion in the trial of Nuncount for forger, the basis of his seven years trial before the House of Lords which ended in a verdict of not gulfv on all the charges. But there is much more for which his administration is justly famous. The recovery of the Marathas from their defeat at Panipat was the cardinal factor that in fluenced his policy towards the native states One frontier was closed against Maratha invasion by the loan of a British brigade to the Nawab Wazir of Oudh, for his war against the Robilias who were intriguing with the Marathas. In Western India be found times!! committed to the two Maratha wars (1" 5-8.) owing to the ambition of the Bombay Govern ment to place its own nominer on the throne of the Peshwa at Poons and the Bangal troop that he sent over made amands by the con quest of Gujrat and the capture of Gwallor for the diagrace of Wadgaon where the Marathas overpowered a Bombay army In the South-where interference from Madras had already led (1769) to what is known as the first Mi sore war a disastrous campaign against Hyder All and the Nizam—he found the Madras Govern ment again in conflict with those two 10th in tates. The Vizam he won over by diplomacy but against Hyder Ali be had to despatch a Bengal army under Sir Evre Coote Hyder All died in 1782 and two years later a trouty was made with his son Tipu. It was in these acts of intersection in distant provine a that Hastings showed to best advantage as a grat Hastings showed to best advantage as a great and coursecors man carticose but care in action scales required. He was succeed (1786 93 alt on the foundation of the property of the country he separated the functions of the District Col-lector and Judge and organized the writers and merchants of the Company into an ad-ministrative Civil Service. This system was subsequently extended to Madras and Bombay Lord Cornwalls is better known for his intro-duction on orders from Eughand of the Per-manent Settlement in Bengal. See articl-on Land Revenue. A third Myson was was waged during his tenure of office which ended in the aubmission of Tipu Suitan. Bit John Shore (Lord Telgumouth) are experienced Civil Servan, succeeded Lord Cornwalls and in 1798 was followed by Lord Welleslay the trend of Pitt whose projects were to change the may of India. the map of India.

#### Lord Wellesley's Policy

he was the first Governor-General, nominated large tracts of territory in lieu of payments arge tracts of fermory in hen or payments overdue as subsidies for British troops, he then won over the Nizam to the British side, and, after expesing the intrigues of Tipn Sultan with the French embarked on the fourth Mysore war which ended (1799) in the fall of Stringapatam and the galant death of Tipu. Part of Mysore the Carnatic and Tanjore Part of Mysor the Carnatic and Tanjors roughly constituting the Madras Presidency of to day then passed to British rule The five Maratha powers—the Peshwa of Poona the Gaskwar of Baroda Sindhia of Gwallor Holkar of Indore and the Raja of Nagpurhad still to be brought into the British not like Pesliwa after being defeated by Holkar fied to British territory and signed the fresty of Basseln which led to the third Marsha war (1802-04) as it was revealed by Stables garded by Sindhia and the Rapa of Nagpur as a betrayal of Maratha independence. In this, the most successful of British campaigns in India Sir Actiur Williesley the Duke of Wellington and Genral (Lord) Lake carried all before them the one by his victories at Assays and Argaum and the other at Aligams and Laswari Later operation such as Colorabal nel Monsons retreat through Central andla were less fortunate. The great acquisitions of territory made under Lord Welledy proved so expensive that the Court of Directors becoming impatent sent out for formeasis a second time to make peace at any price. He however died sorn after his arrival in India and Sir George Barlow carried on the government (1805 7) until the arrival of a stronger ruler Lord Minto He managed to keep the phase in India for six years and to add to British dominions by the conquest of Java and Mauritius. His foreign policy was marked by another new departure. Instruct as he opened ariotic raw departure magnitudes in operations with the Punjab P rais and Afghanistan and concluded a treaty with Ranjit Singh at Lahore which made that Bikh ruler the loyal ally of the British for life

The successor of Lord Minto was Lord Moirs who found himself obliged almost at once to declare war on the Gurkhas of Vepal, who had been encroaching on British territory. After Initial reverses the English under General Outh thony, were successful and the Treaty of Sagauli (1816) was drawn up which defines British relations with Nepal to the present day for this enterest of the treaty of the present day. For this success Lord Yours was made Marquis of Hastings In the same year he made preparations for the last Maratha war (1817-18) which was made necessary by the lawless con duct of the Pindaris, gaing of Pathan or Robilla origin whose chief patrons were the rulers of Native States The large number of 120 000 that he collected for this purpose destroyed the Pin daris annexed the dominions of the rebellions Peshwa of Poons, protected the Rajput States, residual of rooms, provened the naput bases, made Sindhla enter upon a new treaty and compelled Holkar to give up part of his terri-tory Thus Lord Hastings established the British power more firmly than ever, and when he resigned, in 1828, all the Native States con-side the Punjab had become parts of the polltion was undertaken owing to the insolent de-mands and raids of the Burmese and resulted in the Burmese coding Assam, Aracan and the coast of Martaban and their claims to the lower object was easily attained (1839) and for two provinces. The capture of Bharatpur by Lord Combernmer (1828) wipsol out the repuise courself of the British In 1841 Sir which General Lake had received there twenty Alexander Burnes was assassinated in Kabul vears earlier A disputed succession on this occasion led to the British intervention.

#### Social Reform

A former Governor of Madras, Lord William Bentinck, was the next Governor-General. His epitaph by Macaulay says He abolished cruel rites he effseed bumiliating disthetious he gave liberty to the expression of public opinion his constant study was to elevate the intellectual and moral character of the nations committed to his charge "

Some of his financial reforms, forced on him from England, and his widening of the gates by which educated Indians could enter the rice of the Company were most aupopular errice of the Company were most supopular; at the time but were collapsed by the acts he took for the abolition of Sats or widow burning, and the suppression—with the help of Captain Sleeman—of the profusional hereditary assassing known as Tkegs. In 1832 he annexed Cachar and, two vers later Coorg. The incompetence of the ruler of Mysore forced than to the first that Sats also makes Reithead. him to take that State also under British ad ministration—where it remained until 1881 His rule was marked in other ways by the des-patch of the first steamship that made the passings from Bombay to Suez, and by his settlement of the long educational controversy in layour of the advocates of instruction in English and the vernsculars. Lord William Bentinck left India (1835) with his programme of reforms unfinished. The new Charter Act basiness of the Company and emphasized their position as rulers of an Indian Empire in trust for the Crown By it the whole administra tion, as well as the legislation of the country was placed in the hands of the Governor-Gene was placed in the hands of the Governor-General in Council and authority was given to create a Presidency of Agra Before his retirement Bentinek assumed the statutory title of Governor-General of India (1834) thus marking the progress of consolidation since warren Hastings in 1774 became the first Governor-General of Fort William. Bir Charles Metcalife being senior member of Council succeeded Lord William Bentinek, and during blashort towns of office curried into account. his short tenure of office carried into execution bis predecessor's measure for giving entire liberty to the press

Afghan Wars.

With the appointment of Lord Auckland as Governor-General (1886-12) there began a new era of war and conquest. Before leaving Loudon he announced that he looked with existant on the prospect of "promoting education and knowledge, and of extending the blessistant of the promoting education and knowledge, and of extending the blessistant of season of Government and happiness to milities in Isolia but his administration was sent to garrison the Funito on behalf to almost exclusively comprised in a fatal expedition to Alphanistan, which draging in the fundamental to the fifth wars, and the following the fifth war to garrison the Funito on behalf to the hill Rajah. Lord Hardinge returned to successively comprised in a fatal expedition to Alphanistan, which draging in the prospectors of Balanistan in the prospectors of Balanistan in the prospectors of Isolian proconguits.

Dallouse had only been in India a few and in the prospectors of Isolian proconguits. The first Alphan war was ansier to Bertish loss 2,490 officers and mea

and Sir William Macnaghten suffered the same late in an interview with the son of Dost Ma late in an interview with the son or loss ma-homed. The British commander in Kabul, Gen. Hiphinstone was old and feeble and after two months delay be led his army of 4 500 and 12,000 camp followers back towards india in the depth of winter. Between Kabul and Jallalabad the whole force perished either at the hands of the Aighans or from cold and Dr Brydon was the only survivor who reached the latter city Lord Ellenborough succeeded Lord Auckland and was persuaded to send an army of retribution to relieve Jallahabad. One force under Gen Pollock relieved Jallahabad and marched on Kabul, white Gen. Nott, bad and marched on Kabul, white Grn. Nott, advancing from Kaudahar captured Ghaxni and Joined Pollock at Rabul (1842). The barsar at Kabul was blown up the pri soners rescued and the army returned to India leaving Dost Mahomed to take undisputed with a bombastic proclamation from Lord Ellenborough and the parade through the Punjab of the (apurkus) gates of Somnath taken from the tomb of Mahmud of Ghaxni

#### Sikh Wars.

Lord Blienborough's other wars—the con-quest of Sind by Sir Charles Napler and the suppression of an outbreak in Gwallor—werr suppression of an outbreak in Gwallor—werr followed by his recall and the appointment of Sir Henry (1st Lord) Hardinge to be Gov ernor-General A soldier Governor-General or sir Henry (1st Lord) Hardinge to be Governor-General. A soldler Governor-General was not unacceptable for it was felt that a trial of sweight was imminent between the British and the remaining Hindu power in India the British and the remaining Hindu power in India the British Ranjit Singh, the found of the Sikh Kingdom, had died in 1839 [or 18-the end to the treaty be had made with Majosife thirty years earlier. He left no son capable of ruling and the khalas or central council of the Sikh army was burning to meaning the second army was burning to measure its strength with the British sepoys. The intrigues of two men, Lai Singh and Fel Singh, to obtain the supreme power led to their crossing the Suilej and invading British territory Sir Hugh and invading British territory Sir Hugh Gough, the Commander-in-Chief and the Gov ernor-deneral hurried to the frontier, and within three weeks four pitched battles were fought—at Mudki, Fercusshah Aliwal and Sobraon. The Bilthe were driven agress the Suiter and Lahore surrendered to the British.

besides four guns and the colours of three regi-ments but before reinforcements could arrive from England, bringing Sir Charles Napher as Commander in-Chief Lord Gough had re-stored his reputation by the victory of Guirst which absolutely destroyed the Sikh army As a consequence the Punjab was annexed and became a British province (1849) its parifica-tion being so well carried out, under the two Lawrences that on the out break of the Mutinv ight years later it remained not only quiet but loyal in 1852 Lord Dalhousie had again to em hark on war this time in Burms owing to the ill treatment of British incrchants in Rangoon The lower valley of the Irawaddy was occupied from Rangoon to Prome and annexed under the name of Pogu, to those provinces that had been acquired in the first Burness war. Bri tish territories were enlarged in many other directions during Lord Dalhousi's a tenure of office. His doctrine of lapse by which British rule was substituted for Iudian in States where continued misrule on the failure of a dynasty made this change possible came into practice in the case of Satara Thansi and Nappur (which last named State became the Central Provinces) where the rulers did with out leaving male beins Outh was annexed on account of its misrule. Dathouse if it many other marks on India. He reformed many other mans on them to be from the administration from top to bottom found of the Public Works Department initiated the railways, telegraphs and postal system and completed the great Ganges canal He also detached the Government of Bengal from the charge of the Governor-General and summoned representatives of the local Governments to Finally in education he laid down the inter-finally in education he laid down the inter-of a department of public instruction and initiated more practical incasures than those devised by his pred cessors. It was his mis-fortune that the mutiny which a withly followed has matter was by many loca-tion of the control of the part of the in English of the control of the control of the public of the control of the control of the control of the public of the control of the control of the control of the public of the control of t the deliberations of the Government of India Finally in education he laid down the lines and followed in Engli-change.

Jepoy Matiny succeeded by Lord Cambridge in 1856 and in the following year the a poys of the Bengal army mutined and all the valley of the Ganges from Delhi to Patna rose valley of the causes of this convulsion are difficult to estimate but are probably to be found in the unrest which followed the progress of English civilisation in the spreading of false rumours that the whole of India was to be subdued in the confidence the sepoy troops had sequired in themselves under Bri troops had acquired in the ambition of the characteristic had been and the the ambition of the character character to take a greater share in the government of the country Added to this there was in the deposed King of Delhi, Baha dur Shah, a centre of growing disaffection Finelly there was the story—not devoid of truth—that the cartridges for the new Enfeld. rinsity more was the story —not devoid of the women being mutilated and murdered in truth—that the cartridges for the new Enfield compone to which place they were taken back rifes were gressed with fat that rendered them inclean for both Hindus and Mahomedans. And when the inntitey did break out it found fores arrived to the relief. In Lucknow a the army without many of its best officers arrived to the relief. In Lucknow a who were employed in civil work and the July 2 to September 25 against transmitted british treops reduced, in spite of Lord Dalhousies a warnings, below the namely he including force, under lawelook and Outcomidated counted for melety On May 10 ram, was itself invested, and the garrison was

the sepoys at Meerut rose in mutiny cut down a few Europeans and unchecked by the large European sarrison, went off to Deith where next morning the Mahomedans rose Frous that centre the muthry spread through the North Western Provinces and Outh Into Lower Bengal Ridings in the Punjab were put down by Sir John Lawrence and his subordinates who armed the Sikhs, and with their help re-duced the sepoys and Lawrence was subse-quently able to send a strong body of Sikhs to ald in the slege of Delhi. The native armies of Madras and Bombay remained for the most the contingents of some of the great chiefs the contingents of some of the great chiefs joined the rebels, but Hvd rabad was kept leyal by the influence of its minister Sir Salar Jung

The interest of the war centres round Delhi, Cawapore and Lucknow though in other places The slege of massacres and fighting occurred. The siege of Lelli began on June 8 when Sir Henry Barnard occupied the Ridge outside the town Barnard occupied the Ridge outside the town Barnard died of cholera early in July and Thomas Reed, who took his place was obliged through libres to hand over the command to Archdair Wilson In August Nicholson arrived with a reinforcement from the Punjab In the meantime the rivel force in Delhi was constantly added to by the arrival of new bodies of mulineurs statacks were frequent and the loses heavy cholers and sonatroke carried off many victime on the Ridge and when the first assault was on the Ridge and when the final assault was made in September the Delhi army could only parade 4 720 infantry of whom 1 960 were Europeans. The arrival of slege guns made it possible to advance the batteries on September 8 and by the 13th a breach was made. On the following day three columns were led to the assault a fourth being held in reserve Over the ruins of the Kashmir Gate, blown in by Home and Salkeld, Cot Campbell led his men and Some and Sakied, Col Campoen led na men and Nicholson formed up his troops within the walls. By nightfall the British with a loss of nearly 1200 killed and wounded, had only secured a foothold in the city Six days street fighting followed and Delhi was won but the gallant hicholson was killed at the head of a storming party Bahadur Shah was taken prisoner and his two sons were shot by Captain Hudson.

#### Massacre at Cawmpore.

At Campore the apove mutined on June 27 and found in Nana Schib the heir of the last Peshwa a willing leader to spite of his former professions of loyalty There a European protessions of loyathy There a European force of 240 with six guns had to protect 670 non-combatants and held out for 22 days, surrundering only on the guarantee of the Nama Allahabad. They were embarking on the boats on the Ganges when fire was opened on them, the men being shot or backed to pieces before the ages of their wires and children and before the eyes of their wives and children and the women being mutilated and murdered in

#### Transfer to the Crown

With the end of the muting there began a new era in India strikingly marked at the out set by the Act for the Bett r (overnment of India (1858) which transferr d the entire ad ministration from th Company to the Crown By that Act India was to be given in d by and in the name of the Sovereign through a Sovereign tary of State area ted by a Council of fifteen members. At the same time the Covernor General received the title of Victor The European troops of the Company namb ring about 24 000 officers and men wr -- greatly rewning the transfer-amaignment with the Royal service and the Indian Nav. was abo-lished. On November 1 1823 the Nicroy sonounced in Durbar at Allahabad that Queen Victoria had assumed the gos muent of India and proclaimed a policy of justice and r ligious toleration. A principle already nunciated in the Charter Act of 1833 was r loion 1 and all, of every race or creed, we too be a milited as far as possible to those offices in the Queen's service for which they might be qualified. The atm of the Government was to be the benefit of all her subject to India — In their prosperity will be our strength in their certaint ment our security and in their gratitude our best reward. Pears was proclaimed in July 1859 and in the cold weather Lord tanning went on tour in the northern provinces to receive the homage of loval chiefs and to assure them that the policy of lapse was at an end A number of other important reforms marked the closure years of Canning's Vierovally. The India toucils Act (1871) augments 1 th Governor-General's Council and the Louncil of Madras and Bombay by adding non-official members, European and Indian for legislative purposes only By another Act of the same year High Courts of Judicatur were constituted. To deal with the increased d bt of India Mr James Wilson was sent from England to be Financial Newsber of Council, and to him are due the customs system, income tax hoense duty and State paper currency. The cares of office had broken down the Viceror's health Lady Canning died in 1802 and this hastened his descriptor for England where hidded in June of that year. His successor Lord Hein lived only a few months after his arrival in India, and was succeeded by Sir John (after wards Lord) Lawrence the saviour of the Pimish

#### Sir John Lawrence.

The chief task that fell to Sir John Lawrence was that of reorganishing the Indian military system, and of reconstructing the Indian army The latter task was carried out on the prin

not finally delivered until Sir Colin Campbell | The re-organisation was carried out in spise of arrived in November | Fighting continued for | financial difficulties and the addiling of Indian 18 months in Ondh, which Sir Colin Campbell | revenues with the cost of a war in Abysinia finally reduced, and in Central India, where with the cost of a war in Abysinia signify reduced, and in Central India, where with the cost of a war in Abysinia signify reduced, and of Central India which India laid no direct concern but with which India laid no direct concern but when the distinctived Rani of Jhansi—who on the army in India while the re-organising process was being carried on Two severe process was being carried on India children in India shill of the India Six John Lawrence was kiercy and he isld down the principl for the first time in Indian hi tory that the offices of the Government would be held personally responsible for taking every possible means to av rt death by starva-tion. He also created the Irrigation Expart-ment under (of ( ir Richard) Strachev. Two commercial crees of the time have to be noted. commendaters or the time near to be industry in On criously threaten d the time industry in Rengal. The other was the consequence of the wild gambling in shares of every description that took place in Bornbay luring the yours of rese rity for the Indian codom in dustry caused by the American Civil War The Shan Mania h wever did no perma ment harm to the trade of Bembay but was, on the oth r hand larg ty respondible for the s men of splendil buildings begun in that city during the Covernorship of Sir Bartle Frere, Sir J in Lawrence relied in 1869 having passed through every grad of the service from an Austant Magatracy to the Meerousity an Assam and the second distinction of the Lord Mayo who suceed distinctioned the Agricultural Dipartin and introduced the system of Provincial Plannes thus fostering the Impulse to local self-government. He also hald the foundation for the reform of the salt dutk ther by enabling his successors to abolish the interpresental customs lines. Un-happily his vast schoues for the development of the country by "xtending communications of every kind was not carried out to the full ny him for he was murdered in the convict not firm for he was inner red in the convex-stillar in a fith Andanian Islands in 1872. Lord Northbrook (Niceron 1872-6) had to exer-cise the abilities chiefly in the province of finance. A water famine which threatened Lower Bengal in 1874 was snootsefully warded off by the organization of State relief and the importation of rice from Burma. The follow importation of red trom burner. The totoco-ing very was notable for the deposition of the tailswar of Barois for misgovernment and for the tour through Indus of the Prince of Wales (th. lat. King Fdward, VI). The visits of the Duke of Ldinburgh to India when Lord Mayo was Vir roy had given great pleasure to there with whom he had come in touch and had established a kind of personal link between India and the Crown. The Prince of Wales a tour aroused unprecedented enthusiasm for and loyalty to the British Rai, and further en couragement was given to the growth of this spirit when in a durbar of great magnificence apirit when in a durbar of great magnifecence held on January lat 1877 on the famous Ridge at 13-thi Quent Victoria was proclaimed Empress of India The Victory of that time, lord Lytton, had, however to deal with a situation of unusual difficulty. Two successive years of drought produced in 1877.78, the worst famine India had known. The most strenges exertions were made to mitigate its The series take was carried out on the proportion strendors were inside to mitigate its strendors exerting were made to mitigate its of Europeans to Indians in the infantry and effects and cight croves of repressive should be one to two and in the limporting grain but the loss of life was called the proposition of t

#### Second Afghan War

The Amir Sher All, was found to be intriguing The Arms Sper All, was found to be intriguing with Russia and that fact coupled with his regular of a British mission led to the second Afghan War. The British forces advanced by three routes—the Khyber the Aurism, and the Bolan—and gained all the important van lag points of Eastern Afghanistan. Sher All id and a tryaty was made, with his son, lakub fid and a treaty was made with me son a sadu-khan which was promptly broken by the murd r of Sir Louis Cavagnari who had ben-ent as English envoy to kabul. Further oper ant as regular open to Kabul, ruther open ations were thus necessary and bir k (now lord) Roberts advanced on the capital and defated the Afghans at (Thorasia. A rising of the tribes followed in split of the D of wart a victory at Ahmed Labeyl and his advance from velor, at Ahmed Kheyl and his advance from kabul to Kandakhar A pred ul r Siriar Avub Khan from Herat pr vuted the estab-lishment of peace def and G.n. Burrews organic at Malwand and his sired kandahar Hi war routed in turn by Sir F. Rub rits who made a bulliant march from kabul to Kanda har After the British withdrawal fighting, continued between Ayub Khan and Abdur Rahman but the latter was if undisputed Amir of Afghanistan until his death in 1991 In the magnitum ford Lytton had resigned (1880) and Lord Ripen was appoint it Victors by the new Liberal Government. Ford Ripen is by the new Liberal Government. Lord Rupons and ministration is memorable for the freedom given to the Press by the repeal of the Virua war Press Act for his scheme of twaits of green man which developed manifical in titulions and for the set maps to extend the jurisdiction of the criminal courts in the Districts over Furguan Britch subjects had acceptable of the tricts over Furepean Britch subjects inde-pendently of the race or nationality of the presiding judg. This attempt which creat de a helina, among Europeans in India of great hostlity to the Nerroy indied to a compromis-in 1884. Other reforms were the re-establish ment of the Department of Review and Agri near of the Department of Revious and Agri-culture the appointment of an Education Com-mission with a view to the spread of popular betruction on a broader basis and the aboil two. by the Finance Minister (Sir Fyelyn) Baring now Lord Cromer) of a number of cus i toms duties Lord Dufferin who succeeded Lord Ripon in 1884 had to give his altention more to external than internal affairs on of ble first acts was to hold a durbar at Rawalpindi for the reception of the Amir of Afghanistan which resulted in the strengthening of British relations with that ruler. In 1885 a third Burmeso was became necessary owing to the truculent attitude of King Thibaw and his in ruccinst attitude of King Thibaw and his in trigues with foreign Fowers. The expedition under General Prendergast occupied thandsales without difficulty and king Thibaw was called to Batnagiri, where he still lives on a liberal pension. His dominions of Upper Burnas wer-amoused to Bettish India on the first of Janu ATY 1886

### The Russian Menace

Of greater importance at the time were the measures taken to meet a possible and as it then appeared a probable attack on India by Rusela. These preparations, which coat over two millions sterling, were burried on breause of a collision which occurred be tween Bussian and Aghan troops at Penjdeh, during the delimitation of the Afghan frontier

towards Central Asia and which seemed likely to lead to a declaration of war by Great Britain. War was a verted but the Penjdeh incident had called attention to a menace that was to be left for nearly a generation more it had also served to elicit from the Princes of India an manimous offer of troops and money in case of need. That offer bore fruit under the next vicerov Lord Lansdowner when the present system of imperial Service Troops was organised Under Lord Lansdowner a rule also the definess of the North Western Frontier were strengthened on the advice of Sir Frederick (now Earl) Roberts who was then Comman derin-Child in India Another form of pre-cautionary measure against the continued agaresson of letwal was taken by raking the annual subsidy paid by the Indian Government to the Amil from right to taking the lakes.

On the North Eastern Frontlet then occurred they) in the small state of Manipur a revolution against the Rajo that necessitated an inquiry on the spot by Mr. Quinton the Chief Commissioner of Assam Mr. Quinton the commander of his escort and others, were inacherously murd red in a conference and the excert ignoinmously retreated. This disprace to British arms hed to several attacks on frontier outports which were brilliantic defeat of Manipur was occupied by British ricops and the government of the State was regranted und r a Political Agent Lord Lansdown a term of offir was distinguished by several other events such as the passing of the Parlianic ntary. Act (Lord Cross & Act 1892), which increased the size of the Legislativ Councils as well as the number of non-officials in the melgished the tother feet of non-officials in the melgished parlianic distribution and formestic form among the Hindus and the closing of the Indian Units to the free roin age of silver (1893). In Burma great procress was made under Sir Alexand r Mackensle, a Chief Commissioner comparative order was established and large schemes for the constitution of railways, roads and irrigation works were put in hand. (The Province was made a Lituerant Governorship in 1897) in Burman and a Lituerant Governorship in 1897.

#### Frontier Campaigns.

Lord Elgin who succeeded Lord Lansdowne in 1804 was confronted at the outset with a deficit of the 24 crores due to the fall in exchang (In 1895 the ruper fall as low as 18 18). To meet this the old five per cent inspect of the fall in excommodities, but not on cotton goods and within the year the duty was extended to the special per control of the duty was extended to the special per control of the duty which involved the shollton of the duty as the fall per control of the duty which involved the shollton of the duty as the per control on the farms which involved the shollton of the duty as the fall per control of Preddeney Armies, had hardly been carried out when a number of risings occurred along the North West Fronter In 1895 the British Agent to Chitral—which had come under British influence two years previously when Sir H M Durand had demarcated the southern and castern boundaries of Afghanistan—was bridged and had to be reacted by an expeditionary force. Two years later the Wazirs, Swatis, and Mohmands at tacked the British positions in Haikand, and the Affidia closed the Khyber Pass. Peace was only established after a protogod campaign (the Tirah campaign) is which 40 000 troops were employed, and over 1 600 effects

and mem had been lost. This was in itself a artillary and the reoxpanisation of the trans-beavy burden on the finances of India which port service. In his relations with the Feude-was increased by the serious and widespread tory Chefs, Lord Curzon emphasized the-famine of 1896 97 and by the appearance in position as partners in administration, and he India of bubonic plaque. The methods taken i founded the Imperial Cadet Corps to give to prevent the spread of that disease led in inditary education to the sons of ming and postance in the vernacular prices of seditions for cannent obtained from the Nizam a per-pearance in the vernacular prices of seditions India of blooms piggue. The methods taken to provent the spread of that disease led in Bombay to rioting and elsewhere to the appearance in the vernacular press of seditions articles which made it necessary to make more efficient to the law dealines with the section of the province of the section of the s stringent the law dealing with such writings

#### Lord Curson s Vicerovalty

With famino and plague Lord Curson also who succeed d Lord Eigh in 1899 had to deal and 1901 the cycle of had harvests came to an but plague increased and in 1904 deaths from it were returned at over one million the many problems to which Lord Curson directed his attention only a few can be men tioned here some indeed claim that his greatest work in India was not to be found in any one department but was in fact the general one department but was in last in the kriteria gearing up of the administration which he achieved by his uncessing carry and pursonal example of stremous work. He had at once to turn his attention to the North West Fron tier The British garrisons beyond our boun dary were gradually withdrawn and replaced by tribal levies and British forces were con centrated in British territory behind them as a support. An attempt was made to check the arms traffic and work on strategic tailways. was pushed forward. The fact that in seven years he only spent a quarter of a million upon repressive measures and only found it necessary to institute one blockade (against the Mahsud Wantris) is the justification of this policy of compromise between the Lawrence and For ward schools of thought. In 1901 the trans Indus districts of the Punish were separated from that Province and together with the po-listed charges of the Maiskand the harbor Karrara, Tochi and Wans were formed into the new Korth West Frontier Province under a Chief Commissioner directly responsible to the Government of India That year also a Cher Courameaner mean in the year also Outside Bengal attempts to quell the directive fluorement of India That year also Outside Bengal attempts to quell the directive witnessed the death of Abdur Rahman, the tion by the ordinary law were fairly successful. Amir of Afghanistan and the establishment of an understanding with his successor Habib uliah. In 1904 the attitude of the Dalai Lama of The being pro-Russian and anti-British it became recessary to send an expedition to than ander Colonel (Sir Francis) toursplusband. The Dalai Lama abdicated and a treaty was concluded with his successor.

### Lord Curzon as Vicerey

In his first year of office Lord Curzon passed the Act which in accordance with the recommendations of the Fower Commission particular fixed the value of the rupes at 1s 4d and in 1900 a Gold Reserve fund was created. had in 1900 is coop incorps that marked this The educational reforms that marked this Viceroyalty are dealt with elsewhere chief among them was the Act of 1904 reorganting the governing bodies of Indian Universities. Under the head of agarian reform must be greationed the Poulah Land Allenation Act, mentioned the Punjab Land Alienation Act, defined to free the cultivators of the soil from the collection of the collection of the collection of the collection of Agricultum hands. The affecting blanch 1908.—Attempt of the Army was increased (Lord Elichener botham, a missionary a was Consumored Chief) by the re-amment of the Ladian Army, the strengthening of the Mayor of Chandernagers

Government obtained from the Nizam a per-petual lease of the Askined Districts of Berar in return for an annual payment of 25 lakha. The accession of king Edward VII was pro-claimed in a splendid Durbar on January 1 1903. In 1904 Lord Curzon returned to England for a few months but was re-appoint ed to a second term of office. Lord Ampthill, Governor of Madras having acted as Vicercy durbar ble abusen. during his absence. The chi i sat of this second term was the partition of Bengal and the creation of a new Province of Eastern Bengal and Assum—a reform designed to remove the systematic n gleet of the trans-Gang tic areas avermatic frame of the train-wang the areas of Bengal which evoked bitter and prolonged of theirs. In 1905 Lord Curron resigned, being unable to accept the proposals of Lord Stitchen'r for the re-adjustment of relations between the Army headquarters and the Mill tary Department of the Government and being unable to obtain the support of the Home Government He was succeeded by Lord Minto the grandson of a former Governor General It was a stormy h ritage to which Lord Minto succeeded for the unrest which had long been noticed developed in one direction to the corner of the constant of direction into open a dition. The occasion of the outburst is Bengal was the partition of that provine. The causes of the flood of seditions writings and speeches of the many attempts at assassingtion and of the borcott. of British goods are less easily definable mainspring of the unrest was a deep rooted mainspring of the united was a deep received antagonism to all the principles upon which Western soriety experially in a democratic country like England, has been built up."

### Political Outragesa

But scarcely any province was free from dis-order of some kind and, though recourse was order of some kind and, though recourse was had to the deportation of persons without reson assigned under an Act of 1818 special Acta had to be passed to meet the situation etc.—an Explorives Act a Prevention of Switthous Most high Act, and a Criminal Law Amendment Act which provides for a magisterial inquire in private and a trial before three judges of the High Court without a jury. The need for this reinforcement of the law may be shown by a list of the principal political outrages in India while Lord Minto was Vectory and subsequent to his departure -

December 1907 -- Attempt to wreck the Licutenant-Governor of Bengal's train at

December 1907 -Attempt on the life of Mr. B C Allen at Goalundo

March 1908 —Second attempt to wreck für Andrew France a trein at Chandermagore

March 1908.—Attempt to shoot Mr Higgin botham, a missionary at Kushtea. April 11th, 1908.—Bomb thrown at the

April 30th 1908 - Word r of Mrs and Miss | Kennedy at Mozaderpore

August 1908—Mr Camsh Mill manager severely injured by a bomb on the E B S Camsk Hallway

August 1908 -Murder of Narendra Nath Gossain, the approver in the Alipore case in Alipore Juli

November 6th 1909 - Attempt on the life of Sir Andrew Fras r at Overtoun Hall

Youtuber 9th 1908 - Wurder of Inspector Nundo Lall Eauerjee who are stell Khudiram Bose in Serpentine Lane Calcutta

November 1908 -- Sukumar alleged informer murdered at Dacca

February 10th 1908 -- Murder of Babu Ashutosh Biswas in the Courtward at Allpor June 1909 - Prio Mohun Chatter)l (brother of

an approver) stabbed to death at Fat hisnepur July 1st 1909 - Assassination of faute, and Colonel Sir William (urzon Wylli at the Imperial Institute Louden

November 19th 1909—Bomb expludor mar H E Lord Vintos carriage at Ahmeda 1949 —Bomb (TDI Alon bad

December 21st 1909 — Assasination of Mr A M T Jackson I C 5 Collector of Nasik January 24th 1910 - Murder of Khan Baha

dur Shams ul Alum February 21st 1911 -Murd r of Head Con stable Srish Chakmyarty

March 2nd 1911 - Attempt to murch I Mr Cowie PWD with a bomb in Calcutta

April 19th 1911 - Babu Manmehan Der witness in Mun-blgani Lumb case shot dead at Routhbog

June 17th 1911 - Murder of Mr Ashe Col lector of Tinnexella

Raj Kumur Rov at Mynansingh

July 1971 - Sonarang case Rashun Dewan Duffadar Ameri Dewan and Kati Benode Chakravarti shot at Netrapati

September 21st 1912 -- Head Constable Ra dblish How shot dead at Dacra

December 13th 1912 - Attempt to assassi nate 4 bdul Rahaman one of the witnesses for the police in the Midnapors conspiracy case

December 23rd 1912 -H E Lord Hardinge wounded and one of his servants killed by a

bomb during the State entry into Delhi. March 2 th 1913 - ittempt to murder Mr Gordon the sub-divisional officer with a bomb at Molvi Bazaar Sylhet

May 17th 1913 - Chaprast in the employ of the Lahore Cymkhana Club killed by a bomb mar the Lawrence Gardens Lahore

September 29th 1913 -Murder of Head Cons table Haripado Deb College Square, Calcutta September 50th, 1915 -Bankim Chandra Chowdhury Inspector of Police at Mymen singh, formerly of Dacca, killed by a bomb

January 19th 1914 - Nripendra Nath Ghose Inspector of the Calcutta CID shot dead on the Chimer Road Calcutta. A Tell boy, the Chitpur Road

named Ananda, was also shot dead. Notomber 27th 1014 — Seven persons com actual government of india from India to united to become benefors for shooting dead London, to such an extent that the Under-

Sub Inspector Bishrat Ali and Zemindar Jowalu Singh

February 28th, 1915 - Police Inspector Suresh Chandra Mukerji who had been engaged in connexion with taxi can darnite a in Calcutta that dard while on duty by four men with revolvers. His orderly was wounded. The assassin recented

Augu t2.th 1915—Commissioner of Dani hatti shot dead. A pollee constable arriously injured by several revolver shots fired from s Motor Car in an outrage near Calcutta

October 9th 1915 - latindra Mohun Ghose Deputs bup raundent of Police and his son shot dead at Mymensingh

October 2 and 1915 -- Sub-Inspector Girindra Vath Banerice killed and another officer wounded in an attempt on the lives of four C I D officers in Culentin

The list it will be seen, includes two attempts on the life of the Viceroy bimnell. It does not include a number of equally significant disturbances such as the roots in Bombay (June 190s) during the trial of Triak which led to Concurrently with considerable loss of life these represents measures steps were taken to ext ad representative institutions. In 1907 a Hindu and a Mahomedan were appointed to Secretary of State a Louncil, and in 1909 a Hindu was appointed for the first time to the

Vicerov a Council The Indian Councils Act of 1909 carried this policy farther by reconstituding the legislative councils and conferring upon them wider powers of discussion. The executive councils of Madras and Bombay were enlarged by the addition of an Indian m mber

Lord Minte

stor of Timesells

June 18th 1911 — Murder of Sub Inspector | Vic royalty was distinguished by the conclusion. sion (1997) between Great Britain and Russia of an agreement on questions likely to disturb of an agreement on questions likely to distain the fri indly r lations of the two countries ha Asia generally, and in Perula Afghanistan and first in particular. Two expectations had to be uni riaken on the North-West frontier against the Zakka Khels and the Mohmands and ships of the East Indies Squadron were frequently engaged off Maskat and in the Paylon (latific on retious designed to the Pursan Gulf in operations designed to check the traffic in arms through Persia and Mckran to the fronti r of India Towards Native States Lord Minto adopted a policy of less interference than that followed by his predeces-He luvited their views oΩ and in a speech at Udsipur discisimed any desire to force a uniform system of admini tration in Native States, and said he preferred their development with due regard to treatise and local conditions. Lord bilito left India in November 1910 a few weeks after Lord Morley had resigned the Scoretaryship of State, the tonum of their respective posts having been practically identical in point of time The position of the Vicercy had in those years materially obninged Lord Minto had a week Council and this weakness was redected in the government of Bengal and Madras, but it is more important to note that Lord Marley had extended the policy of transferring the actual government of ladia from India to

Becretary for India was able to describe the Viceroy as merely the agent of the Secretary

#### Visit of the King and Queen.

Bir Charles (Lord) Hardinge was appointed bir Charles (LOTG) Hardinge was appointed to succeed Lord Minto His first vear in India was marked by a weak monsoon and lamine in parts of Western india still more by the visit to India of the King Emperor and the Queen who arrived at Bombay on December 2, 1911. From there they proceeded to Belli queen who arrived at homosy on December 2, 1911 From there they proceeded to Delhi where in the most magnificent durbar verbed in India the coronation was proclaimed and various boons, including an annual grant of 50 lakes for popular education, were an-nounced. At the same ceremony His Majestv announced the transfer of the capital of India. from Calcutta to Dolhi the reunion of the two Bengals under a Covernor in-Council formation of a new Lieutenant-Governorship for Rehar Chota Ragour and Onesa and the restoration of Assam to the charge of a Chie! Commissioner On December 14 a naww of 60 000 British and Indian troops was held and on the 15th Their Majestice each laid a founda tion stone of the new capital. From Dellal the tion stone of the new capital. From Delhi the King went to kupal, and the Queen to Agra and Rajputana afterwards meeting at Hanke-pur and going to Calcutta Thence the re-turned to Bomba, and sailed for England on January 10. From all sources, public and private wrote Ha Majesty to the Premer I gather that my highest hope have been realised Our satisfaction will be still greater if time proves that our visit has con excel to the lasting good of India and of the Empire at large,"

In March,1912 a committee of experts was appointed to advise the Government of India as to the site of the new capital Temporary buildings were erected to accommodate the Government, and on December 23 the State entry into Delhi was made by the Viceros This ceremony was marred by an attempt on His Excellence's life as he passed down the Chandri Chauk The bomb thrown from a house killed an attendant behind the Howdah house tiled an attenuant beauty on however, in which the Victory was string scriously wounded Lord Hardings but left Lady wounded Lord Hardings but left Lady by Their Excellencia was unsurpassed and elicitude the control of the con the admiration of all but in spite of the offer of harge rewards the assessin was not caught

Educational schemes claimed a large place in public attention during 1912 and 1913. In the former year a Royal Commission under the presidency of I ord lalington was appoint the presence of 1 ord language was appoint
ed to inquire into the public services of india
la 1912 also a committee of four was appointed, under the Chairmanium of Feld
Larshal Lord Nictorson, to inquire into military policy and expenditure in India. In the following year a Royal Commission was appointed under the Chairmapsi ip of Mr. Austen Cham ander ine Commission of the America Commission of the Markets, to investigate and report on certain administrative questions relating to Indian Sance and currency which had for some years been mesch discussed particularly in India.

In the North-Rast of India an expedition

In August, 1913 the demolition of a lavators attached to a mosque in Cawnpore was made the occasion of an agitation among Indian Ma homedans and a riot in Cawapore led to heavy loss of life Of those present at the riot 108 were put on trial but subequently released by the viceroy before the case reached the Sessions, and His Excellency was able to settle the mosque difficulty by a compromise that was acceptable to the local and other Mahomedans.

In October 1913 it was announced that General Sir Beauchamp Duff had been appoint ed to succeed hir O Moore Creagh as Commanderin Chief This was a departure from the long in Chief Itals was a departure from the source tradition of alternatedy choosing the Comman der in Chief Irom the British and the Indian Army There were special reasons for the nomination of Sir Beauchamp Duff who as Ad jutant General in India, and Chief of Staff dur ing Lord kitcheners term gave proof of his thorough knowledge of Indian conditions and his exceptional powers as a inlitary administrator. The Military changes in India in 1905 and 1909 had profoundly modified the duties of the Commander in Chief and had conferred on him alone duties formerly divided between the Commander in-Chief and the Military Member of Council and had made him the administrative head of the Army
In the latter part of 1913 con iderable feeling

as aroused in India by the circulation of atories—many of them shown to be unfounded—about the ill treatment of Indians in South Africa. Rioting by Indians in Natal was followed by the appointment by the Union Government of a Committee of Inquiry at which the Government of India was represented by Sir Benjamin Robertson The Commission's report afforded the basis of a settlement com Commission's monly regarded as equitable. In the autumn of 1914 the Vicerov at a Council meeting outlined a reciprocal scheme for controlling emi grafion is India and in the Colombes as an alter native to the principle of free migration between all parts of the Empire for which the Govern ment of India had long contended

In Juty the death of Lady Hardinge, wife of the Vicercy took place in London after an operation. The courage she had displayed at Delhi when the Vicercy was wounded by a bomb and the sympathetic and active interest she had displayed in the women and children of India had endeared her to all classes. Her death was widely mourned and her memory to to be perpetuated by a memorial originated by the Aga Khan.

Effects of the War The various effects I the European war upon India are fully discussed elsewhere. But it must here be set on record that the declaration inust here be set on record that the declaration of war war followed in India by an imprecedented declaration of foyalty on all sides, and the numerous offers of help or personal service made by the Chich and peoples around in Registration of intense gratifold. A military force numbering some 200 000, was military force human rang wante gar over, was sent from India to Europe and East Africa, within a short time of the outbreak of hostilities. The announcement of that fact In the North-East of India an expedition was made on the same day that a message trader Gen. Bower, was despatched against the from the King Emperor was published In Abors for the publishment of the sourderers of it His Imperial Majesty said — Amongst the many incidents that have marked the

unanimous opplising of the populations of my Empire in defence of its unity and integrity nothing has moved me more than the passionate devotion to my Throne expressed both by my Indian and English subjects and by the readstory Princes and Ruling Chiefs of India and their productions offers of their lives and their resources in the cause of the resources in the cause of and their resources in the cause of the reain. Their one-volced demand to be foremost in the conflict has founded my heart and has usulful to be the highest leaves the love and devotion which, as I well know have ever devotion which, as I well know have ever linked my indian subjects and myself india was not included in the actual theatre of hostlilles, except which Madras was subjected to a slight bombardment by the German ordiser Enden but shipping in the Bay of Bengal and in the Arabian Sea was on several occasions interfered with and several vessels were sunk by enemy ships.

In allie of the war the year 1915 was one of comparative prace and order in India continuous effort was maintained in all parts of India to keep the troops at the frint and the wounded on their return well supplied with comforts and the Princes and prople of India contribut d handsomely to the various war and relief funds. The monsoon was of a favourable character and though at one tim famine appeared to be inevitable in Gujarat and Lathlawar late rains greed the situation !

The various measures tak n in connexion; with the war are plated elsewhere in this volume. Here mention need be made only of a Bill pass d in the Imperial Legislatic council which gave power to the Governor teneral in Council to issue Regulations to Act It also permitted the creation of a special concerning breaches of ragilations under the let for any offence punishable with death transportation or impresonment for a term of seven years. In connection alth the war also the Via roy-whose term of office was been fighting in January

There were several fights on the North West frontier during the year but the tribesmen never succeeded in penetrating far into British the ritory In Bengal, as will be seen from the list of anarchical crimes quoted above there were a number of signs that the spirit of lawlessness had by no means been stamped out More serious however to the welfare of the country as a whole was the return in Sep temb r 1914 (see Indian Year Book 1914) of a 10mb rof Sikh emigrante from BritishCotumbia The riot at Budg Budge on that occasion gave a for tasts of the re of thio and the constant as the formany of these men. The sequel was seen in the Labore Conspiracy case in which a Special Commission sent need 24 persons to death 27 to transportation for life and six to terms if imprisonment. The jurgment showed that a plot had een prepared with the object of overthrowing the flow mment and the evidence in the case supported the idea that Germans had aided the conspirators and that at least after the war broke out the conspirators regarded themselves as I agus with the enemies of Great Britain Of the death sertences 18 were subsequently commuted to transportation for lift The appeals in the 12 in Con piracy case (See Indian Year Book 1914 p 650) were heard in the early part of the year—four by the Prevy Council and the sent nees confirmed

In the early part of the year the House of Lords alopted a resolution advising the King to withhold the Royal assent during the conti man of the war from the draft proclamation er ating an Fx cutive Council for the United Provinces This elicited widespread comment Insure the safety of the country and was modelled in India the Vierry being the most important generally on the English Defence of the Rashmoof those who condemned the House of India for their act Another important political tribunal of three Commissioners of whom two work during the year was the acceptance by must have qualifications of a sessions or an the Viernoy of a resolution, of the Imperial additional grasions judge to hear cases made over to them by order of the local Government be officially represented at the next Imperial (on ference

The death of Mr Gokhale on February 19 deprived India of one of her leading men whose place in Indian public life to quote Lord Hardings it will be almost impossible the Most of the service that the visited Maskat where there had be voted much of his long life to the service had a source to fill and the most had a many service the service when the visited Maskat where there had be voted much of his long life to the service of Bombay

The impulse which drove the British to India was not conquest but trade. The Government of India represents the slow evolution from con ditions established to meet trading requirements On September 24 1599 a few years before the deaths of Queen Elizabeth and Akbar the mer chants of London formed an association for the purpose of establishing direct trade with the East and were granted a charter of incorporation The Government of this Company in England was vested in a Governor with a Gine-ral Court of Proprietors and a Court of Direc The Government of this Company in nat Court of Proprietors and a Court of Directors. The factories and affairs of the Courpany on the East and West Coast of India and in Bengal were administered at each of the principal estitements of Madras (Port St George) Bombay and Calcutta (Port William) by a President or Governor and a Council con by a rrespont of covernor and a couled covernor sixting of the conjugary of the company. The three "Presidencies were independent of each other and subordinate only to the Directors in England

Territorial Responsibility Assumed. The college of Government in India consequent on the decay of Moghul power and the intrigues of the French on the East Coast forced the officers of the Company to assume terri train responsibility in spite of their own dates and the masteri ord ra of the Directors. Step by step the Company became first the dominant than the paramount power in India. In these changed circumstances the system of growmness by mutually ind, pendent and unwidely councils of the merchants at the Fresh densy towns gave in to grave abuses. Far hument intervened and under the Regulating Act of 1773 a Governor General, and four councillors were appointed to administer the Presidence of Fort William (Bengal) and the supremec; of that Presidency over Madres and Bombay was for the first time established The subordinate Presidencies were forbidden to wage war or make treaties without the previous coment of the Governor-General of Beneral in Council except in cause of immunicity necessity Pitts Act of 1784 which established the Board of Control in England vest dith administration of each of the three Presid n eles in a Governor and three councillors Includ ling the Commander in-Chief of the Pri dency Army. The courted of the Governor Occarral-in-Council was somewhat extended as it was again by the Charter Art of 170? Under the Charter Act of 1833 time Company Under the Charler Act of 1833 the Company was compelled to close its commercial business and it became a political and administrative body holding its territories in trust for the Crown. The same Act vested the direction of the entire civil and military administration and sole power of legislation in the Governor. General-in-Council and defined more clearly the mature and extent of the control to be ex ended over the subordinate governments.

After the Mutby there was passed in 1858 an

Act transferring the Government of India from the Company to the Crown This Act made no important change in the administration in India, but the Governor-General, as representing the Crown became known as the Vicerov log she exorm became known as the Vicerov may it? Hennelves aggreed by the action. The Governor-General is the sole represents of Local Governments and outside the Presidenced, somposed of high officials, each of approval of the Governor-General is necessary where is responsible for a special department to the growth of the most important of the Governor-General is necessary to the approximant of some of the most important of the growth of the most important of the growth of the growth of the contraction.

#### Functions of Government.

The functions of the Government of India are perhaps the most extensive of any great administration in the world. It ciaires a share in the produce of the land and in the Punjab and Bombay it has restricted the allemation of land from agriculturists to non-agriculturists. It undertakes the management of landed estates where the proprietor is diaqualified. In times of famine it undertakes relief works and other remedial measures on a great scale and other represent measures on a given sear.
It manages a vast forest property and is the
principal manufacturer of sait and optum.
It owns the bulk of the railways of the country. and directly manages a considerable portion of them it has constructed and maintains of them it has constructed and maintains most of the important irrigation works it owns and manages the poet and telegraph systems it has the monopoly of the Note seets and it alone can at the mints in motion. It lends money to municipalities rural boards, and agriculturists and occasionally to owners of historic estates. It controls the sale of liquor and intoxicating drugs and has direct responsibilities in respect to police education, medical and sanitary operations and ordinary public works of the most intimate character. The Government has also close relations with the Native States which collectively cover more than one third of the whole area of India and comprise more than one fifth of its popu lation The distribution of these great funcprovincial administrations fluctuates broadly peaking it may be said that the tendency of the day is to confire the Government of India to control and the Local Governments to ad ministration

#### Division of Responsibility

The Government of India retains in its own hands all matters relating to foreign relations dence general taxation currence debt tariffs aports telegraphs and railways. The ordinary internal administration the assessment ment and collection of revenue, education medical and sanitary arrangements and irri-gation buillings and roads fall within the purview of the Local Governments In all three matters the Government of India exercises a general and constant control. It presents a like of general policy and test their application from the annual administration reports of the Local Authorities. It directly administers certain Imperial departments such as Railways Post Office Telegraphs the Survey of India and Geology. It imploys a number of inspecting officers for those departments primarily left to Local Governments including Agriculture Irrisation Forests Medical and Archaeology. It receives and when necessary modifica, the annual hudgets of Local Governments. these matters the Government of India exer of Local Governments and every new appointment of importance, and every large
addition even to minor extabilishments has to
receive its apecific sametion. There also exists
a wide field of appeal to the Government of
india from officials or private individuals who
may feel themselves aggreed by the action
of Local Governments, and outside the Presi
dencies of Madras, Bombay and Bongal the
approval of the Governor-General is precessing
to the approval of the Governor-General is precessing

The supervision of the principal Native States, a Minister of State mats directly with the Governor-General in Council but Local Governments have also responsibilities in this direction where important States have historical association with them, and in the case of minor States.

#### Personnel of the Government

The Governor-General and the ordinary numbers of his Council are appointed by the Crown No limit of time is specified for their tenur, of office but custom has fixed it at five years There are six ordinary members of Council three of whom must at the time of their appointment have been at a least ten years in the service of the Crown in India one of the three remaining premb rs must be a Barrister the qualifications of the fifth and dixth are not priorified by statut. The Indian civilians hold respectively the portfolios of Land its venue and Agriculture £114 the Home the Finance and the Lducation Departments. The Law Member has charge the Legislative Dipartment and a mber with English official experience experience member member with English official experience has charge of th Commore and Industry Department. The Micerry note as his own member in clurry of Foreign affairs. Rati ways are administed by a Board of three members whose chairman has the status of a Secretary and are under the general control of the Commerce and Industry Department. The Command randhlet may also be and in practice always is an extracedinary mem-ber of the Coursell. He holds charge of the Army Department. The Governors of Madras Bombay and Bengal becomextracrdinary nembers if the Council meets within their Pr dencies. The Connell may assemble at any place in India which the Governor General appoints in practice is meets only in D lill and Simla

#### Business Procedure

a Minister of State and has the final votes in ordinary departmental mattern. But any question of special importance, and any matter is which it is proposed to over rule the views of a Local Government must ordinarily be referred to the Viceroy Any matter originating in one department which also affects another must be referred to the latter and in the event of the Departments not being able to agree the case is recli meet periodically as a Cablort—ordinarily once a week—to discuss questions which the Victroy desires to put before them, or which a member who has been oversuled by the Victory has asked to be referred to Council If there is a difference of opinion in the Council the decision of the majority ordinarily prevails, but the viceroy can over rule a majority if he con iders that the matter is of such grave im portance as to justify such a step Each depart mental office is in the subordinate charge of a Sect tar whose position corresponds
I'v much to that of a permanent Under
Secutary of State in the United Kingdom,
but with these difference—that the Secretary is present at Council mustings that he attends on the Victor usually once a wick and dis curses with him all matters of importance arising in his D-partment that he has the right of bringing to the Vicerov's special notice any case in which he considers that the vicereys concurrence should be obtained to action proposed by the Departmental Member of ouncil and that his tonurs of office is usually limited to three years. The Serriaries have under them Deputy Under and Assistant Seer taries togeth r with the ordinary clerical stablishment. The Secretaries and Under are tarles are usually members of the Indian Clil Service The Gov rament of Indla has no Civil 5 rvino of its own as distinct from that of the Provincial Covernments and officers In regard to his own Department each Mem a riving under the Government of India are ber of Chancil is largely in the position of borrowed con the Provinces.

#### Government of India

#### VICEROY AND GOVERNOR GENERAL OF INDIA

His Excellency the Right Hon. BARON MARDING E OF PRESHURET, GCB. GMSL, GCMG, GMIE GCVO LSO assumed charge of office 23rd November 1910 PERSONAL STAFF OF THE GOVERNOR-GENERAL

Private Secretary Sir J H Du Boulay E.O I R Mültery Secretary Li at Col F A. Maxwell VO C.SI DSO 18th Lancers.

Comptroller of the Household Major J Mackon ale C.J.R., 35th 81khs

Ast. Prioris Secretary H A F Metcalfe 10.8

Aides de Comp Captain W A Brown 4th Bat Witt Regt, Captain Vi count R I Erring ton Grenad er Guards Capt. J O C Hasted, Durham Light Infantry, Capt Tin Hon A. H. I. Harding: Wubi-ud din Khan Bisaldar Major rdar Bahadur 31st Lan rers Laram Singh, Risaldar Wajor 13th Duke of Combught's Lancers

Honorary Ades-de-Camp Lumeden Capt W R V C V O Manyon Honv (ol. II ) CIE V D. Nagpur Volunteer Rifles Cuffe Hon Th., Nagpur Volunteer Rifles Cuffe Hon Lt-Col. Of L.W., vol. Upper Burms Vol. Hold Bifles Agabeg, Hony Col. F.J. Ghota Nagpur Light Horse Grice Hony Col. W.T. v. D. 188 Battaflou Calcutta Vol. Bifles Knowles Hony Col. J.G. c.J. R., v. D. Surma V. L. Horse Hony Col. J.G. v. L., v. D. Surma V. L. Horse Warburton, Hony (ol. H. G. Luck. V. Rifles Knowles Hony Col. A.J. v. L. Calcutta Light. Commandant of Body Guard Capt. W. A. 9. Horse Reed Hony Lt. Col. H. Stanley de Gale 5th Lavalry

Bombay Light Horse Henry, Hon. Col. W
D. C.L. Simis Vol. Rifles Muhamonad Ali
Beg Hony Lt. Col. Bir Nawab Bahadur
K.C.L. N VO Commanding H H the
Nizam s Forces Zorawar Singh Cay
Commandant Bhawanagar Imperial Service
Lancers Maharaj ber Singh Commandant
End Surdar Hissia, Jodhpur Imperial Service Troops.

Wali Muhamad, Risaldar Major (Hony Capt.) rati Muhamad, Risaldar Major (Hony Capt.) as Rardar Bahadur late Governor General a Body Guard, Abdul Atiz Risaldar Major (Hony Capt.) Sandar Bahadur late 2th Chony Capt.) Sandar Bahadur late 2th Chony Capt.) Sardar Bahadur late 4th B. Abdul Karlin Khan Risaldar Major (Hony Capt.) Sardar Bahadur late Governor General a Body Guard Mit bingh Suladar Major Sardar Bahadur late Governor General a Body Guard Mit bingh Suladar Major Sardar Bahadur late Sand Stibe. Sardar Bahadur late Sord Sikhe

#### Ordenary Members-

Six H Clark E. St C. Took his east, 24th November 1910 Sir H Craidock K C. I. Took his east 2 th January 1912. Sir William Meyer K C. I. Took his east, 30th June 1913 Sir C H A Hill C. I. C. I. Took his east 5th July 1915 Sir Sankaran Nau

Mr J R Lowndes Appointed 191. (Low)

#### Extraordinary Member-

B & Gen. Sir B Duff GCB ECS. ECVO ADC Commander in Chief in India Took his seat 8th March 1914

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Under Secretary F Noyce
Inspector-General of Forests G S Hart
Assistant Inspector-General of Forests X Sulfary Accountant-General and ex-oficio Deputy Francial Advisor Col B W Marlow
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Ordinary Branch.
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1 C.A.
Deputy Sacretary C W B Cotton 1 C Deputy Sacretary E Burdon.
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Repitars R W Bare 1.50
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A. K. Pandit, Shah Muhammad.
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Compéroller Compéroller

Additional Deputy Pinawiel Adviser Major E B Peacock I.A

Assistant Funancial Advisor R H Rolfe sesistant Controller G II Cockben

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N Banaril, O H Haldrey Farch Din (ofg.)

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Asst. Director Kung Institute of Preventive
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J Evceshed. J Evershed. of Director Bombay and Alback Observatories, Bombay, N. A. F. Moon. Director, Aerological Observatory, Agra, J. H.

Field M.A.

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	(UMA)	Assumed
Name		cluster of office
Warren Hastings Sir John Machpherson Bart		170
Earl Cornwalls L.G (a)		1797
Rari Cornwallis k.G (a) Sir John Shore Bart (b) Licut General the Hon S Clarke K ( B (offg)	ir Alur	1*33
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The Matoule Cornwallie K o (	2nd tem	
Sir George H Barl in Bart		1805 1607
Lord Minto PC (d) The Earl of Moira RG PC (d)	')	1813
John Adam (offg )		1823
Lord Amherst P C (f) William B siterworth Bayles (	(ofter)	1823 1828
Lord William (avendish	Bentine	
<b>ፈ</b> ሔዜ <sub>ማ</sub> የረዘ <b>ኮ</b> ሮ		1828
(a) Created Marquess Cornwal (b) Afterwards (by creates mouth	u 154 u Bar	ug 1742 un Teign
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mount (c) Created Marquess Welles (d) Created Earl of Minto 2; (e) Created Marquess of Hast (f) Created Earl Amberst 16 GOVERVORS GLVERA	Dec.	1826 I K DT 4
Name		Year Into 1
		of office
Lord William Cavendish  OOB GC.H. P.C	Bentine	k, 1834
Sir Charles Metcalle Bart (a)		1835
Lord Auckland G CB P ( (b)	)	1838
<b>Lord Ellenbo</b> rough f C (c) <b>William</b> Wilherforce Bird (offg	.)	1842 1844
The Right Hon Sir Henry		
a.c.s. (d)		1844
The <b>Earl of Dulbonsie</b> P.c. (e).		1848
Viscount Canning, r C (f)		1856

L (a) Afterwards (by escation) Baron Metealist (b) Created Earl of Auckland, 21 Dec. 1830, (c) Afterwards (by creation) Earl of Ellen berough

(d) Created Viscount Hardinge, 2 May 1846 (e) Created Marquess of Dalbousie 25 Aug

1849
(f) Atterwards (by creation) Earl Canning

Note.—The Governor-General commod to be the direct flead of the Rengal Government from the last May 1943 when the first Lieute nant-Covernor assumed office. On 1st April, 1912. Leuzal was placed under a separate Covernor and the appointment of Lieutenant Governor was a selished.

# VICEROYS AND CONFINORS GINERAL OF INDIA

	homusah
12mr	charge
	of other
Vi count Can sing Pr z) The Larl of Light and Amazrdine	1858
TT (   B P C	1682
Major ( meral Sir Rubert Sapler	
KCB (b) (offg)	1863
(alone) Sir William T Denison	
K.CB (0 <b>5</b> 5)	1863
The Right Hon Sir John Lawrence	
Bart GCB KI4L (c)	1864
The Earl of Mayo K.P	1869
John Strachey (d) (offg)	1872
Lord Sapier of Merchistoun R T (e	
(offg)	1872
Lord Northbrook P C (f)	1872
ford Lytton G C B (g)	1876
the Marquess of Ripon E 0 P C	1880
the Lari of Dufferin LP OCB	
GENERAL PU (A)	1884
The Marquess of Lansdowne o c M Q	1888
The Farl of Elgin and Ameardine P.O.	1894
Paron Cutzon of Kodieston, P.C.	1890
Baron Amgibill (aff)	1904
Baron Curron of haddeston P.C.	1004
the Extlof Minto EG PO GCMG	1906
Baron Hardluge of Penshurst FC	
GCD GCMG GCVO 180 (1)	1910
(a) Created Earl Canning 21 May 1	859 Caplar (a

(a) Crated Earl Canning 21 May 1859 (b) Afterwards (by creation) Baron Napier (of Magdala)

(c) Afterwards (by cruation) Baron Lawrence d) Afterwards bir John Straches & C.S.L.

(r) Afterwards (by creation) Baron Mapler of Lttrick

(f) Afterwards (by creation) Earl of North-

ig) Created Earl of Lytton, 28 April 1880

(h) Created Marquis of Dufferin and Ava, 12 Nov 1888

(e) During tenure of office the Viceroy is Grand Master and Pirst and Principal Knight of the two Indian Orders (G.E.S.L., and G.N.Y.L.). On quitting office he becomes G.C.S.L. and G.O.F., with the date of his assumption of the Viceroyalty

# The Imperial Legislative Council.

for the purposes of legislation, and to bring the administration into close touch with public opinion the Executive Council is expand d by additional members into a great legislative assembly. The first stip was taken in 1861 when the Indian Councils Act provided that or the better exercise of the power of making laws and regulations vested in the Governor deperal in-Council be should nominate Additional members for the purposes of legiclation only. The additional members were appointed for two vars and joined the Council when it mut for legislative account. for the better exercise of the power of making maximum number of members fixed by the Act was twelve of whom not less than one half were to be non officials (holding no office und r the downment) and in practice must of the nen officials were natives of Inits Similar Igislative councils were constituted in sem of the provinces but the growth of these bodies will be considered when we come to deal with the provincial adminitrations.

#### The Act of 1892.

In 1892 important additions were made both to the constitution and the powers of the Legislative Council. The number of Adal thought members was raised to sixteen and the representative principle was introduced Whilst the method of appointment was as before nomination by the Covernor General a certain number of nominations were made on the recommendation of specific pursons bodies and as-wintims and to practic times recommendations with never pland Of the recommendations with never ritied. Of the state and dilltonal members six were usually officials and ten non-officials. Four of the non-officials were nominated on the recommendation of the non-official minima of the provincial Legislative Councils the fifth was recommended by the Calcutta Chamber of Commercial and the retunning five were chosen. by the Governor-General cither with a special view to the legislativ business to be transacted or to secure the dusrepresentation of all classes. The Council was also empowered to discuss the budget and to ask questions on matters of public interest

#### Morley Minto Reforms.

The Imperial Legislative Council took its present shape under what is commonly call of the Morley lilinto reform scheme of 1909 and was embodied in the Indian Councils Act of that year Two principles run through this scheme (1) to secure the fair representation of all the varied interests in the country and (2) to give the Council a resimilarnee in deter mining the character of the administration The Imperial Legislative Council now consists of sixty Additional members of whom thirty five are nominated by the Governor-General and twenty five are clertorates. Of the nominated members not more than twenty-eight may be officials, and three others who must not be officials must be nominated by the Mahamedana of the Punjah, the landholders of the Punjah, and the Indian commercial community respectively. The remaining four scale are at the Overnor

The constitution of the Executive Council General a disposal to secure experts on special of the Government of India has been sketched subjects or representatives of minor interests Of the tw mty five elected members cleven are selected by the non-official members of the provincial Legillative Councils two by each of the four largest provinces and one by each of the three other provinces. A twelfth is circled by the District and Local Boards of the Central Provinces as that alministration the central recognitive council six members are closed by electorates of landowpers in expressions for by the Vubam dan community in each of the five provinces and two by the Chambers of Commerce in Calcutta and Pumbay The Covernor General in Council Pinhow the Covernor term is an Council has the even tonal plan for faculating a candidate where ripulation and antecedents are such that his election would be contrary to the public but not in council or affirmation of locality is the term is riquired of every minure before he takes his seat. Members hold office for the cases, and each telenulum than he was all election for the found. there is a gen ral election for the Council.

#### Powers of the Council

The additions to the nonligidative powers of the Council by the Act of 1909 were also ubstantial The (council can exercise a material influence on the Budget The Finance M mber first presents the preliminary estimates with an explanatory memorandum. On a subsequent in he makes such further explanations as he thinks necessary Members can the supers move resolutions regarding any proposed alteration in taxation any proposed loan or any additional grant to Local Governments. While these resolutions are voted triments We in these resolutions are voted upon the ethinates are taken by groups and resolutions may be moved on any heads of five nut of expenditure (creain heads as for instance Customs and the Army an excluded from dicussion. The Flunner Member takes it is discussions into confideration. and then presents his final budget. He describes the changes mad and why any resolitions that have been passed been not been accepted. A general discussion of the budget in take a place but no resolution may be moved or vote taken Government is not bound to act upon the resolution may be moved or vote taken Government is not council. This power is never likely to be used because the os numeric bas an official majority on that bods. This official majority was specially pre-wribed by the Secretary of state because as Laritament is in the last control of India the British Government in though its mouthplee the Secretary of State must have the means of imposing its will on the Governand then presents his final budget the means of imposing its will on the Government of India.

Apart from the Budget debates, members of Council now have the right to initiate the of council now have the right to inflate the discussion of ann question of public interest at any sitting of the Crunell by moving a resolution. The right of interpellation has also been expanded by the power of asking supplementary questions in order to classicate a reply given to an original question. The President of the Council may disallow any question which, the following the right of the council may disallow any question which, in his view cannot be answered consistently with the public laterosts.

### Control over Legislation

The logislative powers of the Imperial Legislative Council are still regulated by the 4ct of 1861 Certain Acts of Parliament under which the Government of India is constituted cannot be touched and no law can be made affecting the authority of Parliament or allegiance to the Crown With these exceptions. The legislative powers of the Governor ( or rail is-Council over the whole of the British India are unrestricted Measures affecting the public debt, or the revenues of India the religion of any of He Majesty's subjects, the discipline or maintenance of the military or naval forces and the relations of the Governor the with foreign states cannot be introduced by any member without the previous sanction of the Governor-General Every Act requires the

Governor-General a amont. The amont of the Crown is not necessary to the validity of an Act but the Crown can disallow any Act that has been passed.

Apart from these legislative powers the Governor General in-Council is authorised to make without calling in the Additional Members, regulations having the force of law for the less advanced parts of the country where a sveren of administration simpler than that in force claswhere is desirable. In case of emergency the Gov mor General can on his own authority and without reference to his Council, make Ordinance which have the force of law for six months

All Members of the imperial and Provincial Legislative Councils are entitled to the prefix Hon'ble hir during their term of office

## A —Elected Members

(Not to be less than 27)

TURN 05

_		Date	Date of		
Sn-		of cont-			
(der)	Name	minee	of term	Elect	orate
Кo		nientol office	of office		
		(igg)	Гоще		
1	Nawah SaiyidMuhammad SahibBahadur	11-1-13	10-1-18	Non official Me	mhus Mades
2	Mr Chakravarti Vilaraghavachanar	Дю	Do	I.o.	Do
	Sir Ibrahim Rahimtoola Kt., CIE	Îο	Îω	Î.o.	Bombay
4	Mr Chimsellal Harital Scialvad	1.0		Ιλο	Do.
	Babu Surendra Vath Banerii	1513	14-4-16		Bengal.
	Mahareja Ranajit Sinhe of Nashipur	Do.	Do	Do	Do
	Pandit Bishan Narayen Dar	15-9-14	21-1-16	Dυ	United
-	1		ļ!		Provinces.
8	Pandit Madan Mohan Malaviva	22-1-1	$\mathbf{D}\mathbf{o}$	$D^{o}$	Do
	Khan Bahadur Mian Muhammad Shalt		10-1-16		Punjab
	Maung Myć	24-12-12			Burms
11	Mr Madhu Sudan Das, CLE.		24-1-16	Do	Bihar and
	. #-11-1-C1 Tr				Oriena
	Srijut Ghanasyam Barua		10-1-16		A Sha.m.
18	Mr M. B Dadabboy		, Do	District Counc	ins and Muni
	I			Provinces	itteea Contral
14	Bama Rayaningar Venkataranga Baha	18-1-19	17-1-16	(andholders, h	fadra.
	dur of Panagaliu	1.5-1-10	1, 1, 10	Control of the Contro	THE ST
15	Meherban Sardar Khan Bahadur Rus	7-1-13	6-1-16	Do	Bombay
	tomii Jehangirji Vakii of Ahmedabad				( Gujarat )
16	Maharaja Manindra Chandra Nandi of	22~1~13	21-1-18	Landholders, E	engal.
	Kasimbezar			-	-
17	Baja Kushalpal Singh, M.A. LLB of	22-2-13	27 12 15	Do.	United
	Kotla				Provinces
	. Marka and Transco Classic Co	10 1 1	AP 10 15	(Tenquoid	ers of Agra.)
19	Maharaj-Kumar Gopal Saran Narain Single	25-12-12	2. 15 19	$D_0$	Bilmer and
10	) – of Tikari.   Sir Gangadhar Madho Chitnavia, K.C.I S. –	11 1 12	10-1-16	Do	Origon.
YA	ON CHARGE THAT WENTED CHARRENTS, 876.1 FT	11-1-10	10-1-10	Do	Central Provinces.
20	Khan Bahedur Mir Asad Ali khan	18-1-18	17-1-18	Muhammadan	
_		200 1-40		WO THE INVESTMENT	Madras
21	Sir Fazuibhoy Currimbboy Ebrahim Kt	11-1-13	10-1-16	Do	Bombay
	Mr Abdul Karlur Abu Ahmed Ghuznayi		21-1-15	Do	Bengal
23	Reja Sir Muhammad Ali Muhammad	19-1-18	17-1-16	Do,	United
	Khan, E.C.I E., Khan Bahadur of				Provinces.
	Mahmadabad.			_	
24	Mr Qumrul Huda Bar at Law	11-1-18	10-1-16	Do	Bibar and
					Orland.
339	F H. Stewart, 0.1 k	O01 €	Z:-1Z-10	Bengal Cham	oer or Com-
**	Mr T. W Birkett	4 4-14	Do	merce. Bombey Char	nber of Com-
رسد	THE P. II DEPOSED		20.	mente.	more or Com-
27	Raja Salyid Abu Jafar of Pirpur	18-1-18	17-1-16	Mohammadan	Landbolders.
				United Prov	

	B.—Nousinated Members. (Not to second 33.)					
nertal No	Name.	Date of Com- mence- ment of office	Date of expiry of term of office	Province or body represented		
	(a) Official Members.			1		
	Not more than 28	<u> </u>				
1	Mr J McNeill Mr W Maud	12-9-14	-	Bombay Bihar and Orises		
ا 4 5	Mr W H Cobb Mr H, I Maynard R K V Arbuthpot	13-12-13		The United Provinces. The Punjah Burms		
6 7	Mr J Walker of M. Lt. Col P R 7 Gurdon	22-5-14		The Central Provinces Assam.		
8 0 10	Lt (of Denis Brooke Blakeway CIE Mr J B Wood CIE Mr H Sharp CIE	21-1-1 21-2-14 21-1-13	20-1-16	The N W F Province, Government of India Do		
11	Mr H Wheeler C12 Mr R P Russell	Da 19–4–13	Do Do	Do. Do		
13 14 15	Mr J B Brunyate CIK Surgeon-General Sir C P Lukis K C SI Mr G H B Kenrick K C LLD	10-5-1 6-12-1 21-1-1	Do Do Do	Do Do Do		
16 17	Mr C H K st vin Mr A P Mud luran C13	Do	Dю	Do Do.		
	Major-General B Holloway CL; Mr C F Low C1 F Mr R W Gillan C \			Do Do Do		
	Mr A H Grant Cal Cle. Mr G B H Fell Cle. Ar C IL Harrison			Do Do. Do.		
	(b) Non Official Members	·				
1	Ral Sitenath Ray Bahadur	22-1-13	21-1-16	Indian Commercial Commu-		
2	Malik Umar Hyat Khan CIF WYC	1		Muhammadan Community Punjab		
	Honv It Col Raja Vai Chand CS1	Do.	Do	Landholders Punjah		
4	Wrel H Abbett	12-4-13	11-4-16			

Present Constitution of the Council.

By the provise to Regulation I for the Legislative Council of the Governor-General it is declared that it shall not be lawful for the Governor-General to nominate so many non-official perso that the majority of all the Members of the Council shall be non-officials

Officials—

(a) Members of the Executive Council (b) The Lieut pant-Governor or this Commissions of the Province (1)	7
(c) Nominated Members	Total 27
Non-Officials (2)— (a) Elected Members (b) Nominated Members	27
	Total 35
II — The Additional Members  The Indian Councils Act 1861, section 10 provides that not less than one	o helf of the Addis
tional Members (exclusive of the Licutemant-Governor or Chief Commissioner of the which the Council may for the time being be assembled) shall be non-officially	of the Province (1):
(Present number of Additional Members Officials (nominated) exclusive of the Lieutenant-Governor (non-officials (elected and nomin or Chief Commissions (1) as a foresaid (Vecanics)	34
	Total Total

(For work of Imperial Legislative Council Session 1915-16, q. v.)

## The Home Government.

The Home Government of India represents the gradual evolution of the governing heard of the old East India Company The affairs of the Company were originally managed by the Court of Directors and the General Court of Proprietors In 1784 Parliament r tablished a Board of Control with full power and autho-rity to control and direct all operations and concerns relating to the civil and military; government and revenues of India. By de-grees the number of the Beard was reduced for India. With modifications this system lasted until 1858 when the Mutiny followed by the assumption of the Covernment of India by the Crown demanded a complike change Under the Act of 1805 1000 merget in the consolidating measure pass d in 191 ) th Secretary of State is the consiliurional advisor of the Crown on all matter r litting to India He inherits generally all the powers and duties which were formerly vested either in the Board of Control, or in the Company the Innectors and the Secret Committee in respect f the Government and revenues of India. He has the power of giving orders to every effect in India including the Governor-General and is in charge of all business relating to India which is transacted in the United Kingdom

#### Secretary of State s Powers

Of these wide powers and duties many rest on his personal responsibility others can be performed only in consultation with his Council and for some of these the concurrence of a majority of the members of his Council is required The Secretary of State may act without cen sulting the Council in all matters wher he is

not expressly required by statut to act as Secretary of State in Crunell. Appointments by the Crown are made in his advectionary official communication proposed to be sent to India must be laid before Council up less it falls under either of two reserved classes One of these is Sout communications dealing chiefly with war and prace relations with foreign Powers and Wathe States. The others are those which he may deen ungent. No matter for which the concurrence of a majority of Council is necessary can be triated as either secret" or urgent In ordinary business, for which the concurrence of a majofly of Council is not required the becretary of State is not bound to follow the advice of the Council. These provisions reserve to the Council. These provisions reserve to the Scoretary of State a wide discretionary power of interference with the Government of India which is executed in accordance with the temperament of the Secretary of State for the time being. But in all matters of imance the sutherity is that of the Scoretary of State and the Council and is freely exercised.

#### The Council.

The Council of India originally consisted of me them ten or more than fourtreen, as the XC.B.

servicing the or more than fourtreen, as the XC.B.

servicing the or more than fourtreen, as the XC.B.

Servicing the Council James H. Basranks. The tamphore hold office for seven brooks, Q.I.E.

years, and this term may for special reasons of public advantage, which must be inid before Parliament be extended for five years more vine members must be persons who have served or resided in India for at least ten years, and who have not left India more than five years before their appointment. Several of them have usually belonged to the Indian Civil Service and have been Beutemant-gover nors of provinces or members of the Viewov 4 Executive Council others are soldiers educa and its powers were a reised by the Pristian temperature bankers or men of disponante embeds the lin at preserver of the Secretary of State or mercantile operations of the Object almed at in India, With monthications, this miss me the constitution of the Come dispose the object almed at in the details of the Indian administration the help of a body of experts. In 1907 in con meetion with the policy of constitutional reform, two Indians one a Hindu and the other a Mahomedan were appointed to vacancies in the council. This practice is certainly to be The pre ent Indian members are maintain d a Mahomedan and a Mkh

#### The Indle Office

Associated with the Secretary of State and the India Council be a recreatful known as the India Office he used at Whitchall. The Secre-lary of State has two Under-Secretaries, one purmanent the other parliamentary to whom some of his minor dutles are delegated. Appointments to the establishment are made by the Secretary of State in Council but junior situations must be fill d in accord ame with the general regulations governing admission to the Home Civil Service.

The whole cost of the India Office is borne by the revenues of India (hough the Home Hoverom at mak a certain grants and remis sion lu le u of a direct contribution amounting to , fin title a rear The total net cost ir cluding pensions is about £2.0 000 erannum

#### Secretary of State.

The Right Hon Aust a Chamberlain M P

#### Under Secretaries of State.

Sir Phomas W Holderness ECB ECB1 The Right Hon Lord Islington GCEG DNO

#### Assistant Under Secretary of State Wi Liouel Abrahams KuB.

#### Conneil.

Vuc-President, Sir Steyulug William Edger ley KCVO CIE Sir kelix O behuster Bart Sir Theodore Motion KCLE. Ga Bir Charles C Legerton GC.B. DS.O Abbr. All Made On St. St. Abbas All Balg, 0.91 LLD Sir William Duke E.C.s.I E ( ) R. Sieder Dalitt Bingh ( &. sir Charles Arnold White Although an indicated by the Secretary Sir Charles Handler, K.O.S.I., C.I.F. of State. By an Art passed in 1907 it now Sir Charles S Havley Golf E., K.C.S.L. 180 combined of such number of members, not being (Verb of the Council Sir Lionel Abrahams,

H Iucas, OB	Consulting Engineer Sir A. M. Rendel, M.C.LE- Stockbroker Hornee Hubert Scott.
terisiant Private Secretary J C Walton	tuditor H A. Cooper
Folimost A D -C to the Secretary of State Ileut. Col Sir J R Dunlop Smith & C.S. I	Troop Service is under the sup-intendence of Graeme Thompson Director of Transports
Private Secretary to Sir T W Holderness C H Kisch	at the Admiralty Secretaries of State for India.
Private Secretary to Lord (slington S K Brown	Assumed
Correspondence Departments,	charge
Secretaries	Lord Stanley P C (a) 1858
Financial, F W Newmarch C S I and   W Robinson	The Right Hon bir Charles Wood Part. (b) 1859 Earl de Grey and Ripon P C (c) 1866
Judicial and Fublic Malcolm C C Setor	Viscount Cranborne (d) 1866
Multary Gen Str E G Barrow G c B will J H Scabrocke ( 1 E	The Pight Hon Sir Stafford North cote Bart (*) 1867
Political and Secret Sir h A Hirtz L K C B	The Duke of Argyll KT PC 1868
Public Works Hermann A Haine	The Marquil of Salisbury PC (_nd
Revenue and Statistics L T her tax 1 K	time) 1974
Director in Crief of the Indo European Tele- graph Public Works Department R & Bar	The Right Hon Gatherne Hardy I c created Viscount Crambrook 14 May 1875 (f) 1875
ACCOUNTANT-GENERALS DEPARTMENT	The Marquis of Hartington P: (g) 1880
Accountant General Walter Badock CSI	The Farl of kimberly P c 3882
also Director of Funds and Official Agent to	Lord Randolph Churchill P C 1885
Administrators-tieneral in India	The Earl of Limberley KO P
STORE DEPARTMENT—INDIA OFFICE BRANCE — Dungtor-General George H Collect	(2nd time) 1886 The Dight Hon his Hubard As h ton
	The Right Hon Sir Richard As h fon Cross a CB FC (rested Viscount
LEDIA STORE DEPOT — Relevedere Road Lambeth, S. F. Superintendent of the India Store Depot, Captain G. T. Wingfield R. N.	tross 13 Aug 1886 1886 The Farl of Kimberley K 6 PC (3rd
REGISTRY AND RECORD DEPARTMENT $-Re$	time) 1692
gistrar and Superintendent of Records W Poster 018	The Right Hon II II Fowler (A) 1894
Miscellaneous Appointments	Lord George F Hamilton P C 1895
Consequent Director of Harlings Companies	The Right Hon St John Brodrak (1) 1908
Government Director of Hadway Companies  Bit H & Burt KCl &	The Right Hon John Morley 0 H (1) 1900 The Right Hon The Earl of Crewe,
Librarian Fredk W Thomas, MA Hon Ph. D (Munich)	1910 The Right Hon Viscount Moriev of
secretary for thatan Students C F Mailet	Blackburn o M 1911
Educational Adviser to Indian Students 1 W   Arnold C1E Litt D M.A (21 Cromwell Road B W)	The Right Hon The Earl of Crewe Ku (k) 1911
Medical Board for the Ezamination of Officers	The Right Hon Austen Chamberlain
of the Indian Services—President Surg Gen	MP 191,
Lieut-Col Sir R. H. Charles GCVO MD IMB, (retd.) FR.C.SI Member LtCol. J Anderson MB, LMS (retd.)	(a) Afterwards (by succession) Earl of Derby (b) (by creation) Viscount Halifax
Legal Adviser and Solicitor to Secretary of State Sir S U Balo R CI R	(c) , (by creation) Marquess of Ripon
Inspector of Military Equipment and Clothing Major Gen. Sir John Steevens, K.c.B	(d) , (by succession) Marquest of balisbury (e) (by creation) Earl of
Surveyor and Clark of the Works T H Winns	(c) (by creation) Earl of Iddexleigh. (f) (by creation) Earl Cranbrook
Ordnance Consulting Officer Liout Col. MSC Campbell 01,E. R.A	(g) (by succession) Dake of Devocabline
Officers of the Indian Army attached to the Gene	(h) , (by creation) Viscount Wolveriumpton, G C.S.I.  (1) , (by succession) Viscound
rat Staff War Office Lieut Oul A G Stuart, 14-Col L. R. Vaughan, Major C L. Storr Ospt. Bir G Duff Sutberland Dunbar Bart.	Midleton (j) n (by creation) Viscount
Officers of the In time Army attached to the India Office-Colonels O H. Sciwyn & P Harris, Lives, Col. J Streenbey E. FO	Morley of Blackburn O.M. (b) "(by creation) Marquess of Crewe, E.G.
• • •	

#### India Council Rill.

In July 1913 Lord Crewe Secretary of State; for such term and on such conditions and shall for India, outlined in the House of Lords certain ideas for the reform of the India Council. The purport of these changes was to reduce the num ber of the Council, and to substitute departments with certain independent powers for the Committees which discharge the detailed work of the Council hothing more was heard of this scheme until June 1914 when there was published the text of the amending Bill, with an explanatory memorandum thereon

#### Text of the Bill.

Appended is the full text of the Bill -

- I .- (I) The Council of India constituted under the Government of India Act 18-8 (which Act as amended by any subsequent enactment is bereinafter referred to as the principal Art) shall consist of such number of numbers not less than seven nor more than ten as the Secre tary of State may from time to time determine
- (2) Unless at the time when an appointment, is made to all a vacancy in the Council two at least of the then existing members of the Council were at the time of their appointment domiciled in India the person appointed to fill the vacancy must be domiciled in India and unless at such time as aforesaid six at least of the then existing members were at time of their appointment either domiciled in India or were persons who ten years and had not seased so to serve or reside more than five years before the date of their appointment the person appointment to all the vacancy must be either doublied in India or must have served or resided in India for at least ten years and have not ceased so to serve or reside more than five years before the date of his appointment

The person appointed to fill a vacancy for which a person domiciled in India is along eligible shall be relected from amongst the persons whose names appear on a list of persons domiciled in names appear on a list of persons congress in India chosen for the purpose by the members (other than official members) of the Legisla-tive Councils of the Governor General Governors Lieutenent Governors and Chlef Commissioners in such manner, subject to such conditions and restrictions and in such number as may be prescribed by regulations to be made by the Secretary of State in Council or by directions issued by the Secretary of State thereunder.

- (8) The yearly salary to be paid to a member of the Council shall be one thousand two hundred. pounds provided that such members appointed after the commencement of this Act who at the ager the contained project of that Art who at the date of their appointment shall be domiciled in India shall be paid an additional yearly allowance of six hundred pounds
- (4) Where the Secretary of State is of opinion that a period possessing special qualification as a fin an dal expert should be appointed to be a member of the Council on special terms, he may after recognize the a minute to be laid before Par humant the special reasons for the appointment and the special terms on which the appointment is to be made make the appointment and the person se appointed shall notwithstanding any thing in the paracipal set, or this Act, hold office

in respect thereof be entitled to such salary and to such pension and other rights and privileges (if any) as His Majesty may by Order in Council in each case determine

Provided that not more than one person appointed under this provision shall be a member of the Council at the same time

- 2 -(1) hotwithstanding anything in section nipeteen of the principal Act it shall not be necessary for an order or communication sent to India or an order in the United Kingdom in relation to the government of India to be aigned by a Secretary of State in such cases as the Se cretary of State in Council may otherwise direct. but every such order and communication shall purport to be made by the Secretary of State in Council.
- (2) For section twenty of the principal Act (which relates to the powers of the Secretary of State to divide the Council into committees and to regulate the transaction of husiness in Council) the following section shall be substituted
- It shall be lawful for the Secretary of State in Council to make rules and orders for the transaction of business as regards the powers which under the principal Act are to exercised by the Secretary of State in Council
- " Provided that any such rule or order so far as it affects any matter or question in respect of which the concurrence of a majority at a meeting of the Counch is required by this Act shall not be valid unless made with the con currence of a majority of the members of Council present at the meeting of Council at which the rule or order is passed "
- (3) Such rules and orders as aforesaid may notwithstanding anything in sections twenty two twenty four twenty fac and tyfest-wix of the principal Act, provide as respects such mat ters as may be specified in the rules and orders—
  - (a) for enabling powers of the Secretary of State in Council to be exercised otherwise than at a meeting of the Council and where necessary for that purpose for dispensing with any requirement of the prin cipal Act as to the occurrence of the main rity of votes of surmiters of Council
  - (b) for dispensing with the necessity of submitting to Council or depositing in the Council Room for the perusal of members orders and communications proposed to be sent to India or to be made in the United Kingdom by the Secretary of State, and of recording and notifying to members of Council the grounds on which any order or romanufication to India has been treated as urgent.
- (4) At a meeting of the Council the quorum shall be three and meetings of the Council shall be convened and held when and as the Secretary of State may from time to time direct.
- (5) Any document required by the principal Act to be signed by two or more members of the Council either with or without the counter signature of the Secretary of State or one of his Under Secretaries or Assistant Under Secretaries

may be signed in such manner as the rules and orders made by the Secretary of State in Council for the transaction of business in his Council may prescribe and any such document it signed in accordance with such rules and orders shall be as valid as if it had been signed in accordance with the provisions of the principal Act

(6) Section twenty-seven of the principal Act /wition enables the Secretary of State to send critain secret orders without communicating them to the mormbers of his council) shall extend to any order not being an order in respect of which concurrence of a majority at the meeting of the Council is required by the principal Act which relates to now question gravely affecting the internal tranquality of Lodio or the interests of India in any other country or the peace or security of any part of His Migesty a Doublions and which in the opinion of the Serretary of State is of the nature to require secrecy and it is further relater which the section shall apply to any order which the section of State may send in reply to a despatch received and dealt with by him, under section twenty-eight of the

(7) All rules and orders made under this section shall be bid before Parliament as toom as may be after they are made, and if an address is presented by this Majesty by either House of Parliament within the next subsequent thirty days on which that House has sat after any such rule or order is laid before it praying that the rule or order is laid before it praying that the rule or order is a satured. He Majesty in Council may amout it. Tule or order and it shall henceforth be void but without prejudice to the validity of mysthing previously done thereunder.

#### The Bill Explained.

The publication of the Bill was accompanied by a memorandum explaining its provisions in the following terms —

The object of this Bill is to amend the Government of India Act 18-38. The Act of 1858 in transfecting the Rovernment of India to the From created the Council of India defined its powers and those of the Sucreture of State and prescribed in great detail the procedure to be followed in the transaction of business.

The Act of 1938 has saregards the numerical stringth of the Louncil and the conditions of office on it been amonded several times. The procedure for the transaction of business is practically unsitered.

By the Act of 1858 the strength of the Council was fixed at fifteen members of whom not less than nine were to be persons who at the time of appointment had served or resided in India for ten years and had not last left india more than ten years. The members were to hold office luring good behaviour but were removable upon an address of both Houses of Paring not Their salary was fixed at £1 200 a year

These provisions have since been altered. The Council now consists of such number of members not less than ten and not more than fourteen as the Secretary of State may from time to time determine. Nine members must be persons who at the time of appointment had served or resided in India for ten years, and had not last left India more than five years. The terms of office is limited to seven years but the

Secretary of State may re-appoint a member for a further period of five years. The salary is £1 000 a year. Since 1907 it has been the recognised practice of the Secretary of State to reserve two appointments on the Council for Indiana.

The procedure for the transaction of business established by the Act of 1858 cannot be varied by rules. The powers of the Secretary of State in Council may be exercised only at weetings of the Council. A Council must be held every week and a quorum of five members is required. In certain matters however trivial in themselves the sanction of a majority of votes at a meeting is required. In other matters the Secretary of State may act alone but except in cases where secrecy or urgency can be claimed his proposed order must lie a week on the Council Table before it is sent. The Act contemplates that all business before coming to the Council should be dealt with in (organities and the Council is divided for this purpose into several Standing Committee Council

It is proposed by clause 1 of the Bill to make certain changes in the stringth and composition of the Council and in the emoliments of the members. Also to take power to make rules for simplifying the business procedure of the Council.

With a simplified procedure much of the unimportant work that now occupies the time of the Standing Committees and the Council would be disposed of by the Secretary of State in communication with and with the assistance of individual members. Committees being specially nominated by him when required a council of ten to fourteen members would then be needlessly large. It is proposed to fix the number at seven to ten and to return to the rate of salary (£1 200 a year) allowed by the Act of 18.08

It is further proposed to convert the present practice of appointing two Indians to the Counid into a statutory requirement to provide that they shall be chosen from names automitted by Indian Legislative Councils and to grant to them an allowance of \$600 a year in addition to sulary in view of the expense of residing out of their own country

Provision is also made to enable the Secretary of State to appetint to the Council a financial member on special terms as to salary pension and tourse of office. The necessity for an exceptional power of this kind has been recognised by the Royal Commission on Indian Currency

Clause 2 of the Bill provides for the simple fleation of burleas procedure. It enables the Secretary of State in Council to make rules to modify the procedure prescribed by the Act of 1858. The rules and when made are to be laid before Parliament. The requirement of a weakly meeting of the Council is also dispensed with and the quorum reduced. The opportunity is taken to enlarge in a way which are not not not also that the dispersion of cases which may be dealt with by the Socretary of State in his. Secret "Department without Informing or consulting his Council.

On the motion of Lord Curson the House of Lords rejected the Bill by 96 votes to 88,

## The Provincial Governments.

Bomber and Beneal the Lieute nant-Gov Burns, and Behar and the Chi f Commissions of the United Previnces, The Punjab | Burns, and Behar and the Chi f Commissions of the Catral Provinces. The makes provinces are 4-sam, the North West misor provinces are 4-sen. the North West Frontier Province Paiuchi and Coorg Ajmere Merwart and the Andaman Islands The resume or medity the jowers that he has blunding in the North West of the Controlled by a single and the Andaman Islands The resume or medity the jowers that he has blunding in the Province Paiuchi and Islands The resume or medity the jowers that he has blunding the North West of the Conferred. In practice the powers on trusted to thick Commissioner of the Central of India and the mass gradually divided into commissioner as which as those exercised by a into and was separated from the Gov runent of India and the mass gradually divided into commissioner is Rs. 50 00b but in the case provinces at the tid of rouguest brought of the Central Provinces this was raised to onder administration areas too large to be Rs. 50 00b but in the case provinces and the mass of these provinces have been varied from time to time to time to heard the satus of Berra to his Government.

The changes made in the constitution and them soft the day the North West Councils The changes made in the constitution and the final adjustment made in accordance with His Majesty the Kings announcement with His Majesty the Kings announcement than the provincial financial statements, and the final adjustment made in accordance with His Majesty the Kings announcement than the provincial financial statements, and the final adjustment made in accordance with His Majesty the Kings announcement that the provincial financial statements, and the final adjustment was announcement to members declared and powers we resolutions on matters of general and the mai aquatment made in accordance with His Majesty the Kinga announcement at the Durbar of 1911 when by the newly created province of Eastern Lengal and Assam disappear d, and Bengal was ro-divided into the Presidency of Rongal, the Lieutenant Governorship of Behar and Orissa, and the Chief Commissionership of Assam whilst the benderative of the Government of John King bradquarters of the Government of India were moved from Calcutta to Delhi and the City of Delki, with an enclare of territory surround of helps, with an escapes of territory surround ing it was taken under the dirut administration of the Government of India. All locations of the Government of India. All locations of the Section of the Government of India. The superinformation of They must obey orders received from him and they must communicate to him about ours according to They must communicate to him. their own proceedings. But each Local tovernment is the Executive head of the administration within the province. By custom all appointments to Local Governments are for a term of five years.

The Three Classes.
The three Presidencies occupy a superior position. The Civil administration of each to rested in a Governor in-Council appointed by the Crown and usuall arown from Lug to public life On certain matters they correspond directly with the Secretary of State correspond directly with the Secretary of State a privilege not possessed by other provinctal Governments. The Government are assisted; by a Council composed of thrus members two members of the Civil Service and, under the Indian Councils Act of 1909 a fourth member who is assisted as I milian Like the Government-General they are addressed as Your Excellence and they are constantly in Section 1998. Excellency and they are escorted by a body mand. The maximum maleries as fixed by act of Parliament are Hs 1 20 000 for a Gover ser and Ra. 64 000 for a member of Council

Lieutement-Governors are appointed by the Governor-General subject to the approbation Generation-General satject to the approbation of the Governor-General satject to the approbation of the Governor-General satject must have served for at allowed by the Crown Included the Indian Compatible Act power was taken to create executive councils in the Lieutenant-Governor-align and this has been applied to Behar where action and this has been applied to Behar where the Lieutenant-Governor-align rescaling and this has been applied to Behar where the Lieutenant-Governor-align resemble the Lieutenant-Governor-align resemble to Behar where the Lieutenant-Governor-align resemble

British India is divided into eight large of consisting of two members of the Civil Ser provinces and six lesser charges each of which vice and one Indian Lieutenant-forement is termed a Local Government. The eight are addressed as Your Honour. Their maximator provinces are the Invidences of Madras, mum salary. Re 1 00 000 is fixed by Act of Parliament

Chir. Commissioners stand upon a lower footing, being dilegates of the Governor-General part of the Commissioner administers his province on behalf of the Governor General in-Council, who may

given to memore to debate and move resond toma on the provincial financial statements, to move resolutions on matters of general public interest and to ask supplementary questions. A description of the system in Bombay will show how the scheme works. The Bombay Legislative Council is composed of four ex-officio members (the three members of the Executive touncit and the Advocate-ceneral) and 44 additional members. Of the additional members the Governor nominates twenty three (of whom not more than fourteen may be officially and 21 are elected The Government is thus without a majority of officials in the council of the elected members, eight are elected by groups of municipalities and the District Boards four by Mahondan electrorates and three by discrorates of the land bolding classes. The Bombay University the Bombay Municipal Corpora-University the Bombay Chamber of Commerce, the karachi Chamber of Commerce and the Mill owners Association and the Indian Com-mercial Community each elect one member For regulations for the formation of electrorates, and as to the qualifications and disquali fications of candidates and votors, are similar to those made in the case of the Supreme Council

the rules for the discussion of the annual financial statement are similar to those ap-plicable to the Supreme Council The Minan-cial Statement is presented and considered as a whole and there in detail and resolutions may be moved. The Government is not bound by any resolutions which the Council may pass. Matters of general public interest under the control of Local Governments may be made the subject of resolutions. Laws passed by these legislative Councils require the sanction of the Governor-General and may be dis-

The Secretariat

Each Local Government works through a centariat, which is divided into various departments, each under a Secretary. In addition to the Secretaries there are special de partmental heads such as the Inspectors to acral of Lotice Jails and Registration the Director of Public Instruction the Inspector General Sanitary Commissioner and the Superintend at sanitary Commissioner and the superintend in the Civil Veterinary Dipartment There are also third Engineers for Tubbe Works and Irrigation who are likewith Secretaria-to Government In nearly all the Province-erupt Bombay the review departments are administered under Government, by a hart of Revenue

The District Officer

The administrative system is based on the rejeated sub-division of territory each administrative area being in the respondible clearge nigrative area being in the responsion, charge of an officer who is subordinate to the officer next in rank above him. In most important if these units is the District and India em-braces poor than 250 Districts with an average area of 44-00 square tilles and an average population of 0.1000 in Madras there is no local officer above the head of the District elsewhere a Compunction r has the supervision of a Divisi m comprising from four to six Dis that The head of a District is styled either the Collector and District Wash trate or the Doubt Commission r il letter presentative of the Government and embodics the power of the He is concerned in the first place with the land and the land rivenue. He has also charge of the local administration of the excise Income tax stamp duty and oth r sources As a Magistrate of the first class of revenu thousand rupers In practice he does not try many criminal cases although he supervises the work of the other Magletrates in the District

In addition to these two main departments the Collector is later sted in all matt is per taining to the walfare of the people. In some are in consequence of the formation of perial partment such as those of Public Works Forests Jalls, Sanitation and Education less direct than was fernerly the east Lut even in malt re dealt with by separate department his active co-operation and direction in counsel are needed. The Manicipal Government of all considerable towns is vested in Municipalities but it is the duty of the Collector to guide and control their working. He is usually the Chairman of the District Board which with the uid of subsidiary beards, maintains reads, schools and dispensaries and carries out santtury improvements in rural area.

Other Officers.

Other important district officers are the Superintendent of Police, who is responsible for the discipline and working of the police force and the Civil Burgeon, who (except in Bombay) is the head of the medical and sani lary administration. The local organisation of Government Public Works, Forests, Education and other special departments varies in different parts of the country Reab District has the own law officer, styled the Govern ment Pleader

The Districts are split up into aub-divisions, this princi under Junior Officers of the Indian Civil Ser Australia.

vice or members of the Provincial Service vice or memora of the avoidom octave called Deputy Collectors. In Madras Bombay and the United Provinces there are smaller sub-district units called taluks or tabalis, ad and sub-district units called taluas or tansus, au ministered by tahsildars (Bombay Mamiatdars), ministerici by tanismusis troumes, and with main tanishare or mahalkaris. The tahalidar is assisted by subordinate officers, styled revenue inspectors or kanungos and the village officers. The most important of the latter are the headman who collects the revenue, the karnam karkun or patwari who keeps the village accounts, and the chaukidar or village watchman

Trend of Provincial Government

The relations of the Previncial admin trations with the Government of India form the subject fine seant discussion. On the one skie there are the strong centralisers who would focus all authority in the Government or India on the others those tout advocates of provincial auto official the control of the control the direction of in That ing id author to of the Provincial toy ruments and the cortrol and ent recener of the tovernment of fuchs has ben materially reduced especially in the area of marters. There was a marked develop ment of the pole vadumbrated In the despatch I the Gov rument of India which ulmilited to the Secretary of Stat the proposal to reto the Ser (m) of star in Proposal to remove the headquarters of the Gov mment of hids from subsuits to Delhi. This paragraph thus indicated the idea of the supreme authors although the fi s xir m interpretation the exposition of the tree of history bolles, and to some find an history and to heart the most authorita-

The maintenance of British rule in India depends on the ultimate supremiers or the four ernor General in Council and the Indian Councile 4ct of 1 309 itself brars testimony to the impresibility of allowing must us of vital con e ra to be decided by a majority or non official votes in the Imperial Like latte Council witheless it is certiful that he the course of time the just demand of Indians for a larger harein the governm of of the country will have to be satisfied and the question will be how this devolution or power can be come ded without impalring the supreme authority of the Governor of the difficulty would appear to be gradually to give the Livetness a larger measure of self to give the 1 notified last india would consist of a number of administrations autonomous in all provincial and with the Government of India above them all and possessing power to interior in case of misgovernment but origin narily restricting their functions to matters of Imperial concern In order that this consum mation may be attained it is essential that the supreme Government should not be associated with any perfecular Provincial Government The removal of the Government of India from Calcutta is therefore a measure which will, in our opinion materially facilitate the growth of Local Self Government on sound and eafe lines It is generally recognised that the capital of a great central Government should be asparate and independent, and effect has been given to this principle in the United States. Canada and

# Administrative Divisions.

Provinces,	No of Districts.	Ares in Square miles,	Population (1911)
Ajmer Merwara	2	2,711	01 295
Andamans and Nicobars	12	8 143 52,950	26 459 6 718 685
Baluchistan	6	45 804	414 412
Bengai	28	78 412	45 483 077
Bilber and Oriesa	21	B\$ 205	84 490 084
Bombay (Presidency)	26	123 064	19 672,642
Вошрау	26	75 918	16 118 042
Sind	6	47 066	3 518,435
Adea	_	80	46 166
Borma	41.	236 738	12,115,217
entral Provinces and Bergy	22	100 345	13 916 306
COOK	. 1	1 583	174 976
Madras	24	141 726	41 405 404
North West Frontier Province (Districts and administered Territories)	5	16 466	2 196 988
Punjab	29	97 209	19 974 950
Juited Provinces of Agra & Oudh	48	107 164	47 182,044
Agra	86	83 198	34 624 040
Oudh	12	23 968	12 558 004
Total British Territory	26,	1 097 901	244 267 542

States and Agencies	No of Districts.	Area in Square miles,	Population (1911)
Baluchistan States Baroda State Bengal States	a	86 511 8 099 32 773	396 432 3 2,032 798 4 538 161
Bombay States Central India Agency Central Provinces States	í	65 761 76 772 31 168	7,411 567 9 346 980 2.117 002
Kasters Bengal and Assam States Hyderabad State Kashmir State	1 1	82,698 80 900	575,835 13 874 676 3,158 126
Madras States Coehin State Travencore State	1	9 969	4,811 841 918 110 8 428 975
Mysore State North West Frontier Province ( Ageocles and Tribal areas)	1	29 444	5,806 193 1 622,094
Projeb States Rajpotana Agenov		36 592 127,541	4,212 794 10 530,452
States United Previnces States	}	5 079	87 920 882,036
Total Entire States		675,267	70,884,995
Grand Total, India		1773 108	815 132,537

# The Bombay Presidency

The Bombay Presidency stretches along the lare no great perennial rivers exitable for irrivest coast of India from Sind in the North to gation, and the harvest is largely dependent Kenars in the South It embraces with its guidences and a population of 27 084,317. Of this total 65 751 square miles are in Native State in the region of unfalling rainfall, supplemented by well irrigation. A chain of Irrigation works, with a population of 7 411 675. Geographi cally included in the Presidence but under the gradually being completed and this will ultimately make the Deccan intume to serious Government of India is the first class Native directly in the serious of the part of India. State of Baroda with an area of 8 182 squar-miles and a population of 2 032 788 The outlying post of Aden is under the jurisdiction of the Bombay Government it has an area of 80 square miles and a population of 46 165

south of these come the Karnatic districts. On the sea side of the Ghats is the Konkan a rice growing tract intercepted by creeks which make communication difficult. Then is the far north is Sind, totally different from the Presidency Proper a land of wide and mono tonous desert except where irrigation from the Indus has brought abounding fertility

#### The People.

The population varies as markedly as soil and climate In Sind Mahomedans predominate. long under the dominion of powerful Mahome-dan kings Here there is an amplitude of caste divisions and a people, who although softened by prosperity are amongst the keenest trading races in the world. The Deccan peasant has races in the world ine Deccan peasant has been seasoned by adversity the saying goes that the Deccan expects a famine one year in every three and gets it the population is much more homogeneous than in contains and thirty per cent are Mahrattas. The Karnatic is the land of the Lingavets, a Hindu reforming sect; of the twelfth century and in the Konkan there is a large proportion of Christians. Four main languages are spoken Sindi Gujaratt, Marathi and Kanarese with Urdu a rough insqua france where English has not penetrated. The main castes and tribes number five hundred.

The principal industry is agriculture, which The principal industry is agriculture, which supports sixty four per cent of the population. In Sind the solls are wholly alloying and under the indusence of irrigation produce yearly increasing crops of wheet and cutton. In Guigarat they are of two classes the black cotton soll which yields the famous Broach cottons, the finest in India, and alluvial which under careful cuttivation in Ahmedabad and Kata washes mightly be the land. The and Kaira makes splendld garden land. The dominant soil characteristic of the Decoan is summann son craractersists of the Decoh is black soil, which produces cotton, wheat, fram and millet, and in certain tracts rich crops of sigar case. The Konkan is a rice land, grown inder the abundant rains of the submontane rations and in the south the Disarwar cotton view with Parach as the heat. In Julie vies with Broach as the best in India. There trate it in modern ports with deep water suchor-

the Presidency has been scourged by famine and plague during the past fifteen years. evils have not been unmixed for tribulation has made the people more self reliant and the so square miles and a population of 46 165
The Presidency embraces a wide diversity of soil, olimate and people more self reliant and the rise in the values of all produce, synchronising with a certain development of industry has the presidency proper are the rich plains of Gujarat watered by the Nerbudda and the Tapit, whose fertility the retundation of House and the Carden of India. South of Bombay City the Garden of India. South of Bombay City the Western Ghats, a range of bills running parallel to the coast. Above Ghata are the Decean Districts with a poor sofi and an arid climate with a poor sofi and an arid climate with a poor sofi and an arid climate.

Whilst agriculture is the principal industry others have no necessitable place. The mineral wealth of the Presidency is small, and is conflued to building store salt extracted from the sea and a little mange. nese But the handlerafts are widely distri-buted. The handlerom weavers produce bright coloured saris and to a diminishing extent the exquisite kneeds of Ahmedabad and Surat Bombay silver ware has a place of its own as well as the brass work of Poona and Nask But the tendency is to submerge the indigenous handicrafts beneath industry organised on modern lines Bombay is the great centre in India of the textile trude. This is chiefly found in the headquarter cit/ Bombay, where the industry embraces 3009 172 spindles and 48 845 tooms and employs 109 860 hands and consumes 3 773 133 cwise of cotton. This industry is now flourishing, and is steadily rising in efficiency In lieu of producing immense quanti-ties of low grade varn and cloth, chiefly for the China market the Bombay mills now turn out printed and bleached goods of a quality which improves every year and the principal market is at home. Whilst the industry centres in is at home. Whilst the industry centres in Bombay City there are important offshoots at Ahmedabad Broach and Sholapur In Ahmedabad there are 978 616 spindles and 22,705 dated there are \$7,800 spindles and \$2,000 looms in Sholspur 23.,000 spindles and 3.400 looms and in the Presidency 47.54,694 spindles and 8.,438 looms. It is expected that the prosperity of the Bombay trade will be quickened, as a project now in operation for the substitution of electricity for steam for the substitution of electricity for steamthe electricity is generated at a hydro-electric
station in the Ghata, fifty miles distant—
furnishes cheap and efficient power its
attuation on the workern sea board in touch
at once with the principal markets of India and
the markets of the west, has given Bombay an
immense sea borne trade. The older ports,
Surat, Broach, Cambay and Mandvir were
famous in the ancient days, and their hold and
hardy martners carried Indian commerce to the
Persian Guit and the coasts of Africa. But the
opening of the Bucz Canai and the increasing
size of ocean steamers have tended to coacts
trate it in modern ports with deep water suphor-

ages, and the sea borne trade of the Presidency is now concentrated at Bombay and harathi although attempts are being made to develop Morningae in Portuguese territory into an onliet for the trade of the Southern Mahratta Country The est borne trade of the Bombay Into an Presidency (or loding Sind) was valued in 1914-10 at Rs 15 crores (imports Rs 14 crores expurts Rs 51 crores) That of and at Rs 44 crores

#### Administration

The Presidency readministered by a Governor in-Council. The Governor is appointed by the Crown, and is usually drawn from the ranks of those who have made their mark in English public life. He is assisted by a Council of three members, two of whom are drawn from the Indian Civil service and the third in practice is an Indian Each Member takes spe-cial charge of certain departments and cases where differences of spenion occur or of special importance are decided in Council Ali government through the service business reach: into five main departments each under a becretary (a) Revenue and Financial (b) Political Judicial, and Special (c) General Lincustomal Marine and Ecclesiastical (d) Ordinary Public Works (c) Irrigation The senior of the three Civilians Secretaries is entitled the Chief Secretary The Government frequently moves It is in Bombay from November to the end of March at Mahableshwar from April to Junc March at Mahableshwar from aprit to some in Poons from June to September and at Mahableshwar from October to November but the Secretariat is always in Bomhay Un-der the Governor in-Council the Presidency is administered by four Commissioners The administered by four Commissioners The Commissioner in Sind has considerable inde-pendent powers In the Presidency Proper there are Commissioners for the Northern Division, with headquarters at Ahmedahad the Central Division at Poons and the Son thern Division at Beigaum. Each district is under a Collector usually a Covenanted Civi Han, who has under him one or more Cuilians as Assistant Collectors, and one or more Deputy Collectors. A collectorate contains on an average from eight to ten taluka each consisting of from one to two hundred villages whose whole revenues belong to the State The village officers are the pate' who is the head of the village both for revenue and police purpose the talati or kulkarni clerk and accountant the messenger and the watchman Over each Taluks or group of village is the manilation who is also a subordinate magis trate. The charge of the Assistant Deputy Collector contains three or four talukas. The Collector and Magistrate is over the whole District. The Commissioners exercise general control over the Districts in their Divisions. The control of the Government over the Native States of the Presidency is exercised through Political Agents.

#### Justice.

The administration of fustice is entrusted The annual states of plants of the High Court stilling in Bombey and emprishing a Chici Justice, who is a bar risker and air, pulses judges, either Civilians, courted of two Chief Engineers who act as Basenteers or Indian lawyers. In Bind the Secretaries to the Government is under the Court of the Judges Court of the Judges

judges one of whom must be a barrister) is the highest court of civil and criminal appeal. Of the lower civil courts the court of the first instance is that of the Subordhate Judge recruited from the ranks of the local lawyers. The Court of tirat appeal is that of the District or Assistant Judge or of a first class subordi or assistant single of or a mist class support in the judges with speedal powers. District and Areistant Judges are Indian Civilians, or members of the Provincial Service in cases exceeding Rs 5 000 in value an appeal from the decision of the bubordinate or Assistant Judge and from the decklion of the District Judge in and from the decl.ion of the District Juage in all cricinal suits lies to the High Court Dis-trict and Assistant Juiges exercise criminal jurisdiction throughout the Presidency but original criminal work is chiefly disposed of by the Executive District Officers Capital sen tenies are subject to confirmation by the High Court In some of the principal citiks Special Mamstrates extreise Magnetrates extreise aummary jurisdiction (Bombay has four Presidency Magistrates, as well as Honorary Magistrates exercising the functions of English Justices of the Peace) and a Court of Small Causes corresponding to the English Country Courts

#### Local Government

Local control over certain branches of the administration is secured by the constitution of local boards and municipalities, the former exercising authority over a District or a Taluka and the latter over a city or town These bodies are composed if members either nominated by tovernment or elected by the people who are empowered to expend the funds at their disposal on education, sanitation the construction of roads and tanks and general improvements. Their funds are derived from improvements. Their funds are derived from cesses on the land revenue, the toll and ferry funds. The tendency of recent years has been to increase the elective and reduce the nominated element to allow these bodies to elect their ovn chairmen whilst large grants have been made form the general revenues for water surply and drainage

#### Finance

The finance of the provincial governments is marked by definite steps toward provincial financial autonomy. Up to 1870 there was one common purse for all India. rince then progressi retens have been taken to increase the independence of local Governments. Broadly certain heads of revenue are divided with the Imperial Government whilst certain growing heads of resemble varying in each province am allotted to the local Government Thus in Bombay the land revenus, stamp revenue and revenue from assessed taxes are divided with the Government of India. All other local sources of revenue go intact to the local Government The provincial Budget for 1915-16 shows an opening balance of Rs. 154 lakha, revenue 742 lakins expenditure 771 lakins and the closing basine. Rs 131 lakins These large balances are due to grants from the Imperial Governments for non recurring expenditure

#### Public Works.

Under them are Superintending Engineers Under them are Superintending Engineers in charge of divisions and Recentive Engineers in charge of districts, with the Consulting Architect. The chief irrigation works are in Sind and consist of a chain of canals fed by the annual brundstions from the Indus and one personnal canal the Jameso. In the President works dency proper the principal protective works are the Nera Canal Gokak Canal, Mutha Canal and the Godsverl Canal Scheme In addition there is under construction a chain of prothere is under construction a chain of pro-tective irrigation works originating in reser-voirs in the Ghat regions. The first of these the Godavari Scheme is now in operation the Pravara Scheme and the Nira Scheme have recently been sanctioned. The Public Works budget for the current year is 80 takes of

#### Police

The Police Force is divided into three alegories. District Police Railway Police The Police Force is divided into three categories District Police Railway Police and the Bombay City Police The District Policy are under the Inspector-General who is either a member of the Gazetted Force or a Covenanted Civilian Under him are the Positive Inspector-Generals for Sind and the Northern and Southern Ranges of the President and Country of the Presid derry proper for Railways and for Criminal layestization District Superintendents of Palce have charge of each District with a regu Psice have charge of each District with a regu-ber cadre comprising Assistant Superinten-ients Sub-Inspectors, Chief Constables and Constables. The Bombay City Police is a separate force maintained by Government-under a Commissioner who is responsible direct to Government. The Training School at Nasik-prepares young gazetted officers and the rank-and life for their duties. The cost of the Police is 11. lakha.

#### Education

Education is imported partly through direct Government agency partly through the medium, of grants-in-sid Government maintain Aris Colleges at Bombay Poona and Gujarat the Jrant Medical College the December 19 June 21 Reference the Ariemtitae and cultarit the Orant medical College the Poons College of Science the Agricultural College, Veterinary College School of Art Law chool and a College of Commerce 4 Science College in Bombav is now in course of construction Also in Bombav City and the leadquarters of each district a model secondary. headquarters of each district a model secondary school. The other secondary schools are in hthree hands the majority of the primary schools are maintained by District and Local Boards with a grant-in-aid. The Bombay Minicipality is responsible for primary education in Bombay City. There are now in the Presidency 10 Arts Colleges, 173 High Schools 14 601 Primary schools, with 1039 017 scholars. The Government Educational Budget is 76 lakes.

The Educational Department is administered by a Director, with an Inspector in each Division and a Deputy Inspector with Assistants in each district. Higher education is controlled by the Bombay University (established in 1887) consisting of the Chancellor (the Governor of the Presidency), the Vice-Chancellor (appointed by Government for two years), and 10 Fellows of whom 10 are sensible, 10 110 Tolow 100 Felows of whom 10 are sweeting, and 1 J. Creray, L.C.B. J.F. Primate Sary elected by the Graduates, 10 by the Farmities, Major J. Greig, Ci.R., 121st Floraters, M.S. and 80 are nominated by the Chaptelloc.

The principal educational institutions are. -Government Aris Colleges

Elphinstone Wilkinson College, Bombay Principal Deccan College Poons Principal Mr H G

Rawlinson Gujarat College Ahmedabad, Principal th Rev W G Robertson.

Printe Aris Colleges—
St. Xavlers, Bombay (Society of Jesus Principal Rev Father Goodyear Wilson College Bombay (Socitish Missio Principal Pev Or Mackichan.

Ferguson College Poons (Deccan Educational Society) Principal the Hop bi\*

Ferguson College Poona (Deecan Educational Society) Frincipal the Hoo bit Mr. B. P Faranipe.
Baroda College Baroda (Baroda State)
Principal Mr Clarke.
Samaldas College, Bhavnagar (Bhavnagar 'Atate) Principal Mr Unwalla
Bahauddinbhai College Junagadh State,
Principal Mr Scott,

Special Colleges

frant Medical College, Bombay (Govern-ment) Principal Lt Col. Street, L.E.S. College of Science, Poons (Government), Principal Dr Allen

Agricultural College Poona (Government) Principal Dr. Harold Mann. Chief. College, Bajkot Principal Mr. Mayne. college of Science Ahmedahad

Law School Bombay Principal Mires Ali Akbar Khan

Akbar Ahan
Cultege of Commerce, Bombay Principal,
Vir P Anstey
Veternary Colloge Bombay Mr K Hewistz.
Bombay Bacteriological Laboratory Director
Major Liston I W A
Sir J J School of Art, Bombay (Govern
meent) Principal Mr Cecil Barns.
Victoria Technical Institute, Bombay, Principal Mr T Dewren

cipal Mr T Dawson

### Medical.

The Medical Department is in charge of the Surgeon-General and Sanitation of the Sanitary Commissioner both members of the Indian Medical Service. Civil Surgeons stationed at each district headquarters are re-sponsible for the medical work of the district, whilst sanitation is entrusted to one of the Deputy Sanitary Commissioners. Three large hospitals are maintained by the Government hospitals are maintained by the Government in Bombay and well-equipped hospitals exist in all important up-country stations. Over four million persons including 67,500 in-patients are treated annually The Presidency contains 7 Lunatic asymma and 16 institutions for the treatment of Lepers. Vaccination is carried out by a staff under the direction of the Banitary Commissioner Sanitary work has received an immense stimulus from the large grants made by the Government of India out of the online surphuses. of the oplum surpluses.

Governor and Previous in Council, His Errollemy The Bight Hoshie Freeman Freeman Thomas Baron Williamson of Ratton 2.C.I.E. Took his seat 5th April 1918, Personal Staff

Captain Rigby B.A.M.C, Surgeon to H E the

Capt. K. O Goldie 10th Duke of Cambridge s Own Lancers (Hodson's Horse) Arde de Camp.

Oaptain J C R Gannon 23rd Cavalry Extra Aide-de-Camp

Capt. K. O Goldle 10th Lan ers Officeding Commandant, H E the Governor's Body Guard

Subedar Major Sher Yuhammad Khan 121st Pionears Indian Aide de Camp

#### Members of Council

Mr W D Sheppard CJE ICS

Mr George (armichael CSI ICB

Mr Mahadev Bhaskar Chaubal CSL BA LLB

#### Additional Members of Council.

#### Elected

Moulvie Haffuddin Ahmad Bar at Law Elected by the Muhammadan Community of the Central Division

Mr D V Belvi, BA LLB Elected by the Municipalities of the Southern Divi ion Mr G M Bhurgil Bar at Law Elected by the Jaghirdars and Zamindars of Sind Mr Haji Suleman Abdul Wahed Elected by the Muhammadan Community of the City

of Bombay
Sardar Syed All El Edroos. Elected by the
Muhammadan Community of the Vorthern
Division.

Mr K R Godbole. Elected by the District Local Boards of the Central Division

Shaikh G H Hidayatallah LLB Elected by the District Local Boards of the Sin I Division Bardar Str Chimbhai Madhavlai Bart 61E

Elected by the Millowners Association of Ahmedabad.

Mr Dinsha Edulji Wacha, Elected by the Municipal Corporation of the City of Bombay

Mr C K Parekh, B. LLB Elected by the Municipalities of the Northern Division Mr V J Patel Bar at Law Elected by the District Local Boards of the Northern Division

Sardar B A Saheb Patwardhan, Chief of Kurundwad (Senior) Elected by the Sardars of the Deccan

Mr Abdul Hussein Adamji Peerbhoy Elected by the Muhammadan Community of the Southern Division

Sardar Dulabawa Raisingli, Thakor of Kerwaca Elected by the Sardara of Gujarat.

Mr Manmohandas Bamji, Elected by the Indian Commercial Community Mr Makeoim N Hogg, Elected by the Bombay Chamber of Commerce.

Bac Bahadur S K. Rodda Elected by the District Local Boards of the Southern Divi-

Mr. Farayan Madhav Samarth. Elected by the University of Bombay

sion.

Mr S B Upseani. Elected by the Munici palities of the Central Division

Mr Harchandral Vishindas, BA LLB. Elected by the Municipalities of the Sind Division.
Mr M. De Pomerory Wobb 018 Elected by the Esracht Chamber of Commerce

#### Nomunited

The Advocate General (exofficio)
Lt Col James Jackson MB 1 Mb
Mr G S Curcis

Wr Henry Stavely Lawrence 108 Dr Dominick Anthony D Monte

Sir Jamsetjee Je jeebhoy Bart

Mr B S Lamat.

Mr N D Khandalavala LL B

Mr J H Kothari.

Mr J A D McBain

Mr Lalubhai Samaldas Mehta, « I b

Mr J P Orr 081 108 Rao Saheb V S Naik

Mr E F Michelson

Rao Bahadur E. M Vilkantha LL B

Mr R. P Pranipe

Sir Ibrahim Rahimtoola Et (1E.

Rao Bahadur & L. Sathe

Mr W H Sharp

Surgeon-General It W 5 Lyons

## SECRETARIES TO GOVERNMENT

Political Special and Judicial - L. Robertson 108,

J E t Jukes 108 Dy Secretary Judicial and Folitical Departments (Temporary)

Resenve Financial and Separate - The Hon bla Mr George b ymour Curtle C.B.I 108

General Educatumal Marine and Ecclesias

Legal Department and Remembrances of Legal Affairs—George Dou, las French B & 108 Public Works Department.—H F Beale, and R J Kint (Joint Secretary)

## MISCELLA VEOUS APPOINTMENTS (S C)

Advocate-General The Hon. Mr M R Jardine Inspector-General of Police W L Berkeley Souter CIE

Director of Pulls. Instruction The Hon Mr W H. Sharp

Surgeon General The Hon. Surgeon General R. W 5 Lyons 1 m S

Oriental Translator Muhammad Kadir Shatkh Talukdarı Settlement Officer R. G G Gordon 10 S.

Settlement Commissioner and Director of Land Records C N Seddon Los

Director of Agriculture and Co-operative Societies G F Keatings CLE

Registrar of Co-operation Societies R. B Ew bank (on deputation)

			-
P L Mosey B & 109 Acting.		George Dick (Officiating)	1792
Municipal Commissioner Bombay P B C	adell	John Griffith (Officiating)	1795
01.	_	Jonathan Duncan	1795
Vice-Chancellor Bombay University The Dr Mackichan	Rev	Died 11th August 1811	
Registrar Bombay University Fardunji Da	stur	ticorge Brown (Officialing)	1811
Commusioner of Police Bombay S M	Вd	dir Evan Nepeau Bart.	1812
wardes 0 V O 1 C 9	430	The Hon Mountetuart Elphinstone	1819
Sandary Commissioner Major F H	Q	Major General Sir John Malcolm 6 C.B	1827
Hut hinson		Light General Sir Thomas Sidney Beck with KCB	1830
Accountant-General Montagu Brig torks Inspector-General of Presons Lt Col J Jac			
INS	Raon	Died 15th January 1881	
Postmaster General E A Doran CIE	_	John Romer (Officiating)	1831
Commissioner of Customs Salt, Opium Proces 9 B. Arthur	and	The Earl of Clare	1881
( ollector of Customs Bombay Perev Eccles	164	oir Robert Grant & C H.	1825
Collector of Customs Bombay Percy Eccles Consulting Architect G W Wittet Consulting Surveyor A. E Mirims, F .		Died 9th July 1888	
GOVERNORS OF BOWBAY		James Farish (Officulting)	1838
Sir Abraham Shipman	1000	Sir J Rivett Carnac Bart.	1839
Died on the island of Anjediva in October	1662	dir William Hav Macnaghten Bart. (b)	****
Humfrey Cooke	166	Peorge William Anderson (Officiating) old George Arthur Bart R c.H.	1841
Sir Gervase Lucas	16 <b>6</b> t	Lestock Robert Keld (Officiating)	18 <b>42</b> 18 <b>46</b>
Died 21st May 1867	1000	George Russell Clerk	1847
Captain Henry Garey (Officiations)	1667	Viscount Falkland	1848
Sir George Oxender	1068	Lord Elphinstone GCH PO	1853
Died in Surat 14th July 1669		oir George Russ I Clerk ROB (2nd time	
Gerald Aungier Died in Surat 30th June 1677	1669	dir Henry Bartle Edward Frere X.CB	1861
Thomas Rolt	16 ~	The Right Hon William Robert Seymour	1887
Sir John Child Bart	1081	Vesev FitzG: rald.	
Bartholomew Harris	1620	ir Philip Edmond Wodehouse E.CB	1872
Bled in Surat 16th May 1694		hr Richard Temple Bart E c.s.1	1877
Daniel Annesley (Officeuting)	1694	I lonel Robert Ashburner CBL (Asting)	1880
dr John Gayer	1694	The Right Hon Sir James Fergusson,	1880
ir Nicholas Walte	1.04	Bart K.CMG Tumes Braithwaite Pelle C.S.I (Acting)	700E
William Alskable	170-	Baron Reay	188 <b>5</b> 1886
Stephen Strutt (Officialing)	1715	Baron Harris	1890
Charles Boone	171.	Herbert Mills Burdwood C.S.I (Acting)	1895
William Phipps Robert Cowan	1722	Baron Sandhurst	1895
Dismussed	1729	Baron Vorthcote, C.B	1906
John Horne	1734	Sir James Monteath K C.S L (Acting)	1906
Stephen Law	1739	Baron Lamington GOMG GOIK.	1903
John Geekle (Officiating)	1742	J W P Mulr Mackenzie 0 81 (Acting	1997
William Wake	1742	Bir George Sydenham Clarke & 0. k.e.,	1907
Richard Bourchier	1750	G 01 E (c)	
Charles Crommelin	1760	Baron Willingdon G C.I.E	1913
Thomas Hodges Died 23rd February 1771	1767	(a) Proceeded to Madras on duty in Aug. and then joined the Council of the Conor General as Commander-in-Chic	17DA
William Hornby	1771	India on the 25th Oct., 1793	ir 1m
Rawson Hart Boddam	1784	(b) Was appointed Governor of Bombe	be
Rawson Hart Boddam	1785	the Honourable the Court of Directo	ris de
Andrew Ramsay (Officiating)	1788	the 4th Aug 1841 but before he could	i take
Major-General William Medows	1788	charge of his appointment, he was a nated in Cabul on the 23rd Dec., 184	HEMP I
Major-General Six Robert Aberoromby E.C.B (4)	1790	(c) Afterwards (by creation) Baron Syde	•
v-		f to treeve a more fall programs transmit plant	

# The Madras Presidency.

The Madras Presidency officially the Presi recent progress of the application of machidency of Fort St. George, together with the nery to irrigation on a small scale has been Kative States, complex the whole southern por remarkable. Nature States, coorpies the winder southern pur-tion of the peninsuls, and, excluding the Nature States, has an area of 141 075 square miles. It has on the east, on the Bay of Bengal, a coast kne of about 1,200 miles on the west on the Indian Ocean, a coast-line of about 450 miles. In all this extent of coast, however there is not In all this extent of come, however three is not a single natural harbour of any importance the porta, with the exception of Madras which has na artificial harbour are merely open roadsteads. A plateau, varying in height above sea level from about 1000 to about 3000 ft. and stretch ing northwards from the Nilgiri Hills, occupies the central area of the Presidency on either the central area of the Frenuency on enues aide are the Bastern and the Western Ghats which meet in the Nigiris The beacht of the western mountain-chain has an important effect on the rainfail. Where the claim is high, which may amount to 150 inches on the seaward which has a market to be a superstively little rain falls on the landward side of the range. Where the chain! is low, rain-clouds are not checked in their westward course. In the central tableland and on the east coast the rainfall is small and the heat in summer excessive. The rivers, which flow from west to east in their carrier course drain rather than irrigate the country but the deltas of the Godaveri. Kistpa and Canvery are proor the Godaver, Kistha and Canvery are pro-dactive of fair crops even in time of drought and are the only portions of the east coast where agriculture is not dependent on a rainfall rarely exceeding 40 inches and apt to be untimely

#### Population.

The population of the Presidency in 1911 was 41,402,000 and that of the Native States was 4,813,000 Hindus account for 5p per cent., Mahomedans for 6 Christians for 3, and Animists for 2. The vast majority of the population is of Dravidian race and the principal Dravidian languages. Tamil and Teluguares spoken by 15 and 14 million persons, respectively Of every 1 000 people 407 speak Tamil 577 speak Telugu, 74 Malayakam, 87 Canarcee and 33 Hindustani. It is remarkable that of the 61 millions of population all but quarter of a million belong to it by birth.

#### Agriculture.

About 68 per cent of the population is eccapied in Agriculture. About 49 per cent having a direct interest as knot 40 per cent thaving a direct interest as knot owners or tanants. About 80 per cent of the cultivated sers is under fool crops the principal being size (107 million acres) spiked millet (83 million acres) spiked millet (83 million acres) and ragi or milet (2 million acres) 438 serses are under wheat, 30 million acres are under wheat, 30 million acres are under wheat, 30 million acres are under the and the serse are under to acres and acres are under to acres are un

nery to irrigation on a small scale has been remarkable.

#### Industries.

Comparative poverty is readily exploitable, mineral wealth and the difficulty of coal supply prohibit very large industrial development to the Presidency but excellent work both in reviving dendent industries and testing both in reviving decadent industries and testing new ones has been done under Government auspices. The only indigenous art employing a comaderable number of workers is weaving. There is no system of regular registration in vogue and the figures given can be regarded only as approximate but returns show a total of 1 231 factories driven by engines of an aggre-gate H. P. of 33 417. Of these factories 179 are concerned with continu are concerned with cotion.

The grand total of sea borne trade of the Madras Presidency in 1914 1.5 was Ha 58 16 93 000 a decrease of some 16 per unit owing to war condition. It would be mish ad owing of was condition. It would be missian to the the the test spures in detail since they were abnormal the average for the 5 years ending 1910 it was Rs. 45 01 10 000. The following items in the 1314 1, returns may be sentioned — Exports dereased by 16 per cent in Indian produce and by 26 per cent in foreign goods re exported. Imports decreased loreign goods a exported huports of creas of by 25 per cent under the heading merchandle. In the last normal year about 63 per cent of the trade of the Presidency was with the British Empir and about 42 per cent with the United hingdom Ph. port of Madras accounted for 41 per cent of the Presidency.

#### Education.

The lis rate population numbers 3 30 000 in every 1 000 138 men and 13 women can read and wite Of every 1 000 persons 6 are literate in English but the total number of women literate in English is only 4 000 There were in 1013 1014 twenty nine Arts Colleges, five Oriental Colleges, three Professional Colleges, and Secondary Schools and 26 018 Elementary Schools for males for females there were two Arts Colleges, 69 Secondary there were two Arts Colleges, 69 Secondary Schools and 1 448 Elementary Schools In addl tion to these, all of which were public institutions there were 368 advanced and 4,222 ele

whom must have served for ten years under the Crown in India while the third, of whom official experience is not required, is in practice, but not of peccasity an Indian. Madias administra-tion differs, however in some important res-pects from that of other major Provinces. There is no intermediate local authority between the Collector of the District and the authorities at headquarters, the Commissioner being unknown in Madras Part of the power which would be reserved elsewhere for the Commissioner than the Commissi aboner is given to the Collector whose status is rather higher in Madras than elsewhere, and part is exercised by the Board of Revenue, Each member of the Board of Revenue is in fact a Commissioner for specific subjects throughout the Presidency This conduces to administra the Presidency This conduces to administra-tion by specialists and to the maintenance of tion ov specimizes and to the maintenance of equal progress in specific matters in every part of the Presidency, but it leaves the Government without an official who can judge of the general administration of large parts of the country For these and other reasons the Decontralisa-tion Compilator, recommended that tion Commission recommended that a system of Commissionerships be introduced in Madras.

#### Finance

According to the revised estimates for 1914 to the Presidency's financial position was as follows in lake or rupees—Opening balance 1 175 60 receipts Rs 754 62 expenditure in 822 14 the deflect being considerably larger than anticipated. The effects of the war on trade were charts seen. Thus cotton fell by pit in ber 1914 to Rs 65 per candy whereas in Spitanber 1914 to Rs 85 per candy whereas in Spitanber 1915 if was silling at Rs 108 per cardy. So with other Madras products

Governor and President in Council

Hi | Keellemy the Rt Hum Baron Pertland | CIE PC Took his real Joth October 1912 Personal Staff

I weste Secop C B Cotterell

Müllern Secy Capt Wigram Seymour Elliott Money 22nd Cavelry

Honorary 4:des-de-Comp Commander W B Huddleston R, I, M and Major H H Cordon Mitchell

Edin Auto-de Camp (apt. T A Ti ornton

Indum Aide-de Comp, Risaldar Major Malik men, Major Frederick Junn blwes CLE

(mmandant of Body Guard Capt Corgo H.

Members of Council

Mr l' S Alyar Sivaswaml Alvar Chi Olb Mr H A. Stuart, KOVO CEI

Riccied.

Mr A. G Cardew LEL 108

Additional Members of Council

Dr T M. Nair

Rev G Pittendrigh.

I N Sarma

W Bamohandra Rao Pantulu

1 Subba Krishna Rao Pantuju

Pattu Kesava Pilini.

4. Subbarayutu Reddiyar

B V Alyar Narasinlia Alyar K. P Raman Menon V K. Alyangar Ramanujachariyar

Krishnaswami Bama Alyangar K. R. Venkata Krishna Rao Pantulu

Diwan Bahadur Venkata-wami Ramabhadra Nayudu Garu

C V Surya Narasinha Raju. K Chidambaranatha Mudaliyar

k K Raman Kavalappara Muppil Nayar T zain ul abiden Sabib Shifa ul Mulk

Ahmed Tambi Chulam Muhjuddin Maral katar J O Robinson

Sir Hugh Stein Frager

L l Barber

#### \ ommatted

J dao H L N S Brodle

Davidson exi

L E Buckly
J H. Stone
H L (legg

S B Murray

Colonel William Montague Ellis R E A. Butterworth.

Surg.-Gen W B Bannarman CSL MP INS. James Perch Bedford

H. F. W. Gillman ( R. M. Schmidt

Diwan Bahadur I D Swamikannii Pillai Haji Ismael Sait, Khan Bahadur

1 Richmond.

Sir F J E Spring, R.C.LE.

P Somasundara Chettiyar V 8 Arinivase Bestri

4 Multhead CIE

Raja Sri M. M. Simha Divu Garu

(harles George Lodhunter

SECRETARIES TO GOVERNMENT

( hiel Secretary to Government, A. Butterworth 1 Č S

Recently L Davidsor Obl. 14 -

Local and Munumol Education and Legisla tire James Perch Bedford

Public Works (General), Col. W. M. Ellis, R. L. Joint Secretary & B. Murray

BOARD OF REVEYER

First Member B B Clean

Second Member R C C Carr 1C v

Third Member N 5 Frodle WA

Fourth Member L. L. Buckley

#### MISCELLANDOUS APPOINTMENTS

Commissioner of Levenur Settlement, etc. L. L. Buckley 1 C 8

Repense Survey Department, Director D G Hatchell

Director of Public Instruction J H. Stone C.L.L. (Ag)

Vuo Chancellor of Madree University Justice Sir John Wallis.

Reclairer of Marieus Unicorally, P. Dawsbury

nepector-General of Police, P L. Moore c	1 F 1	Major-Ganeral William Majores	1790
LGA, Surgeon-General, Surgeon-General W	В	Sir Charles Oakeley Bart Lord Hobart	1709 1794
Bannerman, C.S.L.	"	Major-General George Harris (Acting)	1700
lacountant-General Krishna Lul Dut.a u. 1	١	Lord Clive	1799
*nepector-General of Prisons LtCol R Machamara LMS,		Lord William Cavendish Bentinck William Petrie (Acting)	1809 1807
Postmarter-General H. C Sheridan.	- 1	Sir George Hilaro Barlow Bart., K.B	1807
Collector of Customs J J Cotton 1CB	1	LieutGeneral the Hon. John Aber cromby	1811
Communication of Sall Abkari etc. A. Brodie.	ន	The Right Hon, Hugh Elliot Major-General Sir Thomas Munro Bart	1814 1820
Inspector General of Regustration C R. Schmidt.	M	K.C.B Died 6 July 1827	
	oore,	Henry Sullivan Grome (Acting) Stephen Rumbold Lushington	1827 1827
O.L.E. Director of the Kodarkanal and Madras O	baer	Lleut General Sir Frederick Adam L C B	1839
valories, J Evershed.	_ 1	George Edward Russell (Acting) Lord Elphinstone Q C H P C	183° 183°
supt., Govt. Central Museum, and Princ Librarian Connemara Public Leb J. R. Henderson	cipal rasy	Lieut-General the Marquese of I weed date, E.T. C.B.	184
Plancultural Expert, H. C Wilson	- 1	Henry Dickinson (Acting)	184
Person and Hindustan: Translator to Got ment, Major A. R. Nethersole IA	Derys	Major General the Right Hon Sir Henry Pottinger Bart G ( B	184
Constrar of Co-operative Credit Social	etres	Daniel Eliott (Acting) Lord Harris	185 185
L D Swamikannu Pillal, Diwan Bahs		Sir Charles Edward Trevelyan K ( B	185
cientific Officer for Planting Industries of India R. D Anstead.	f S	William Ambrose Morehead (Acting) Slr Henry George Ward, 6 0 M 6	186 186
Consulting Architect W H Vicholis	- 1	Died at Madras 2 August 1860	
Presidents and Governors of Fo St George in Madras	ort	William Ambrose Morchead, (Astrop ) Sir William Thomas Denison & c B Acting Vicerov 1863 to 1864	186 186
William Gyfford	1684	Edward Malthy (Acting)	186
	1687   1692	Lord Vapier of Merchistoun KT (1) Acting Viceroy	186
Chomas Pitt	1698	Alexander John Arbuthuot CSI (Acting)	187
Died at Madras, 17 Oct 1709	1709	Lord Hobart Vied at Madras, 27 April, 187	187
Edmand Montague (Arting)	1709	William Rose Robinson C.S.I (A ang)	187
	1709 1710	The Duke of Buckingham and Chandos	187
Foseph Collet	1711	The Right Hon. W P Adam	188
	1727 1727	Died at Ootacamund 24 May 1881	188
ames Macrae	1776	William Hudleston (Acting) The Light Hon M E Grant Duif	188
George Morton Pitt Richard Benyon	1730 1735	The Right Hon. Robert Bourks, P c	188
Ticholas Morec	1,44	Lord Connemars, 12 May 1887 (by tlon)	cre
John Hinde Charles Floyer	1,47	John Henry Garstin C S.1 (Acting)	169
Chomas Saunders	1750	Baron Wenlo k	189
Heorge Pigot Robert Palk	1765 1768	Sir Arthur Elibank Havelock GCE	18
Tharles Bourchier	1767	Baron Ampthill Acting Viceros and Governor Ge	19 enero
Josias DuPre Alexander Wynch	1770 1779	1904	
Lord Pigot (Suspenden)	1776	Jam's Thomson CFJ (Actual)	100
Jeorge Stratton	1776	Gabriel Stokes CS1 Acting) Hon Sir Arthur Lawley KOMO GC13	190 190
John Whitehill (Acting) Bir Thomas Rumbold Bart	1777 ציין	Sir Thomas David Gibson-Carmichaci	191
Fohn Whitehill (Actory)	1790	Became Governor of Bengal, 1 April	191
Charles Smith (Acting) Lord Macariney E.B GOVERNORS Of Madras	1780 1781	Sir Murray Hammick W.OSI C.L. (Acting)	191
	1785	Right Hon Baron Pentland P ( UCIE,	
Lord Macartney K.B. Alexander Davidson (Acting)	1785 1785	(a) Afterwards (by creation) Baron	
Lord Macartney K.B.	1785 1785 1786 1789	(a) Afterwards (by creation) Baron	

# The Bengal Presidency

The Presidency of Bengal, as constituted on the 1st April 1912, comprises the Burdwan and Presidency divisions and the district of Durjee-ing which were formerly administered by the Lieutenant-Governor of Bengal and the Euraball partition of the old Province had been placed under the administration of the Lieutenant the state of the free state of the Lieuchabt the first of the free state of the free included within this area are the two Native takes of Cooch I char and Hill Tippers which tacks of cooch I char and Bill I topers which we nider the general supervision of the Government of Bengal The area of the British territory is , 8 699 square miles Bengal comprises the lower valleys and deltas of the Ganges and Brahmaputra, and in the main condets of a great should not be incompared. great alluvial plain intersected in its southern portion by innumerable waterways In the north are the Himalayan mountain and submontane tracts of Darjeeling and Jalpalpuri and on the gouth-east the hills in Hill Tippers and and on the court-east the fine in the Thora and of the court has not the west the Chois happut plateau is continued by an undulating tract muning through the western portions of Midna or Bankura Burdwan and Birbhum. The eneral range of the country however is very liw and a great fertile plain extends southward from Jalpalguri to the forests and swamps known as the Sunderbans which lie between the area of ulthation and the Bay of Bongal

#### The People.

Of the inhabitants of the Presidency 1237 288 or 52 4 per cent are Mahomedana and 20940 379 Hindus These two major religious embrace all but 24 per cent of the population. Christians Buddhusts and Animists combined number a little over 1 100 000

Bengall is spoken by ninety two per cent of the population of the Presidence and Birms and trid by four per cent. The Oriva speaking mople number maily 300 000 and Naipal is the tongue of 89 000 persons principally resident. In the Darjeeling and Jalpalguri districts. The wrat majority of the speakers of the Munda languages are Santals in West and North Bengal

## Industries

According to the returns of the Census of 1911 According to the returns of the Crusars of 1911 hauri, 3.34 million persons or three fourths of the Population derive their support from particle and agriculture, and of these YO millions are unitvators, and 33 millions farm servants and field labourers. The area under jute in 1915 attimated at 2.085 2 0 against 2,872 604 in 1914. In some parts of Eastern Bengal this. Since was considerably damaged by floods. Bengal is the most important rice-producing area in Northern India and it is computed that a per cent of the cultivated area of the Presi of per cent of the cultivated area of the Presi denty is devoted to its production Other cops include burley wheat pulses and oil series, the area devoted to the last named being (ver 2 million acres. Sugar is produced both from the sugar-cane and from the date palm and tobacco is grown for local consumption in nearly every district of Bengal. The area under tea in 1914 15 was 159 054 acres. There were 297

#### Manufactures and Trade

The jute mills of Calcutta constitute the principal manufacturing industry of the Preal dency During 1914 15 sixty-seven working mills employed daily on an average 258,284 persons. The war closed a large central market for the raw natural but the Calcutta mills have done very well susta ned as they were by a plentiful supply of cheap material The net profits earned by them amounted to Rs. 1 02 crotes as compared with Rs. 2 68 crores in the nom hal rupes capital employed was Ha. 8 5° crores of which Ra. 7 98 names paid up capital. Up to the declaration of war. Up to the declaration of war the volume of the trade in jute exports was large and the aggregate value rose to Rs, 12 9 rores an increase of 11 12 per cent. The total 160res an increase of it is per cent. The town value for the year houseverfel by 39 per cent. In particular exports of raw inte declared in value by over 7 per cent, the lowest since 1904 0. The net colori one realised from the Just easy for the Calcutta Improvement Trust amounted to Rs 7 90 lakins in 1914 and Rs 31 lakins for the first three months of 191 The jute trade represented 52 8° pcr cent of the total value of the exports of merchardisc from Calcutta. Other principal industries are cotton twist and varu silk yarn and cloth hand made loth sugar molas es lifteen cotton mills were at work and paper during 1914 10 employing daily on an average 10 319 rereons The silk weaving industry is in a declining state. There was only one silk factor, working during 1914 La which employed 73 hands. The manufacture of tra is carried on an extensive stale in Darleeling and Jalpai guri In 1914 15 the maritime tride of Bennal uni in 1014 13 the magitume tride of Bengal reached a total of Re. 161 36 crores. The foreign trade amounted to Ph. 128 06 crores the lowest gince 108-10 of which Rs £2 66 or respersenced imports and Rs 7. 39 crores exports 96 88 per cent of the foreign trade pas ed through the Fort of Calcutta and the ret through Chiftsgong With the readjust-ment of the boundaries of Bengal and the crea-tion of a new Province of Eshar and Origon in 1914 the more important coal fields have passed into the new Province. The number of coal measures worked in 1914 to was 174. The total output was 4 4 4 540 tons again t 4 649 55 tons refred The decrea e was due to a falling in 191 ( 14 off in the demand for industrial purposes owing to the war. The daily average of remons employed in the muses was 3° 879 and there was a notable advance in the use of electricity Three paper mills produced paper valued at over Re (Slakh)

### Administration.

The present form of Government dates from The present form of Government cases from the 1st of April 1912 when the administrative changes announced by the King Enperor at Debb in December 1911 came into operation A Governor was then substituted for a Lieutemant Governor who had previously been at the bread of the Province and Lord Carmichael of Carmichael of the Province and Lord Carmichael of Carmichael of the Province and Lord Skirling assumed charge of the office The Governor is assisted by an Executive Council. phototions employing a delly average of two of whom are at present members of the I 100 69 permanent and 29,840 temporary hands. dian Civil Service and the third an Indian Ti

30		ad 1700menty	
Inspector-General of Police P L Moore of E	1	Sir Charles Oakeley Bart.	1790 1792
Surgeon-General, Surgeon General W Hannerman, C S.I.	<b>'</b> [ !	Lord Hobart Major-General George Harris (Acting)	1794 1798
Accountant-General Krishna Lai Ditta # 4.		Lord Clive	1799
Inspecior-Constal of Prisons, LtCol. B	ין י	Lord William Cavendish Bentinek William Petrie (Actum)	1803 1807
Postmaster-General, H. C Sheridau.		Sir George Hilaro Barlow Bart. K B	1807
Collector of Customs J J Cotton 108	- (	LieutGeneral the Hon. John Aber cromby	1813
Commissioner of Sall, Abkari etc. N. Brodie.		The Right Hon Hugh Elliot Major-General Sir Thomas Munro Bart K.CB.	1814 1820
Schmidt.	-	Died 8 July, 1827	1827
President, Madras Corporation P L Moor C.I.B.	۱ ۲	Henry Sullivan Græme (Acting) Stephen Rumbold Lushington Lieut-General Sir Fraderick Adam K.O B	1827 1832
Director of the Kodarkanal and Madras Obse- vatories, J Evershed	7	George Edward Russell (Actany)	1837 1837
Supt., Govt. Central Museum, and Princip Librarian Connemara Public Librar J. R. Henderson	gl	Lord Elphinstone, a c u P c Lieut-General the Marquess of Iweed date E.T C B	1842
Placicultural Expert, H C Wilson		Henry Dickinson (Actual)	1848
Person and Hundestane Translator to Government Major A B Nethersole IA.	n	Major-General the Right Hon Sur Henry lottinger Bart. G c B	1848
Registrar of Co-operative Credit Society		Daniel Eliott (Acting) Lord Harris	1854 1854
L D Swamkannu Pillai Diwan Bahad	ur	Sir Charles Edward Trevelyan K C B	1859
Scientific Officer for Planting Industries of India R D Anstead.	3	William Ambrose Morehead (Actavi) Sir Henry George Ward, G C M 6	1860 1860
Consulting Architect W H Vichoils		Died at Madras 2 August 1860	1.100
Presidents and Governors of For St George in Madras	rt	William Ambrose Morehead, (Act ng ) Sir William Thomas Denison, K C B Acting Viceroy 1863 to 1864	1860 1861
William Gyfford 10	,84	Edward Maltby (Acting)	1863
Elihu Yaki Nathaniel Higginson	887 892	Edward Maliby (Acting) Lord Namer of Marchistonn E.T (a) Acting Viceroy	18 <b>6</b> t
Thomas Pitt	800	Alexander John Arouthnot, C.31 (Acting)	1872
Pund at Madray 17 Oct 17(8)	709 700	Lord Hobsrt Fled at Madras 27 April, 1975	1672
	700	WHILE HOSE RODIESON C.S.I (A 1949)	187 a
Edward Harrison .	710	The Duke of Buckingham and Chandos	187.
	711	The Right Hon. W P Adam	1880
	727 727	Died at Ootscamund, 24 May 1881	1881
James Macrae 1	725	William Hudleston (Actual)   The Right Hon M. E. Grant Duff	1881
	730	The Right Hon Robert Bourke P C	1886
Richard Benyon 1 Nicholas Morse 1	-44 -44	Lord Connemara, 12 May 1887 (b)	
John Hinde	, .	tion)	
Charles Flover 1	<u>]47</u>	John Henry Garstin C S.I (Acting)	189
	າວ0 755	Baron Wenlock Sir Arthur Elibank Havelock 6 c x 6	189 18
	63	Baron Ampthill	19
Charles Bourchler	767	Acting Viceroy and Governor C	
	7.0	1904	
Alexander Wynch 1 Lord Pigot (Suspenden) 1	773 775	James Thomash U.S.I (Accin/)	1904
George Stratton	770	Gabriel Stokes OBI Acting) Hon Str Arthur Lawley KOMO GC IV	1900 1906
John Waltehill (Activity)	777	Cl. Chaman Named Chaman Constitution	
Sir Thomas Eumbold, Bart 1 John Whitshill (_letrag) 1	1778 1760	Bart KUMG GOIR (b)	
Charles Smith (Acting)	L7BÙ	Hecame Governor of Bengal, 1 april	
	781	(Acting)	1912
Lord Macartney E.B	1755		1912
Alexander Davidson (Acting)  Major-General StrArchibaid Campbell K.B	1785 1786	of Ettrick.	
John Holland (Actions)	1789 1790		Carmi

## The Bengal Presidency

The Presidency of Bengal as constituted on the 1st April 1912, comprises the Burdwan and Presidency divisions and the district of Darjee-ling which were formerly administered by the ing when were minerity auministered by the Lieutenant-Governor of Bengal and the Hajabali Dacca and Chittagong divisions which by the partition of the old Province had been placed under the administration of the Lieutenant Governor of Reston Bengal and Assam The Governor of Restein Bengal and Assam The-ures of the Preskitney is \$4.092 square miles and it possessors a population of 46.305,642 persons included within this area are the two Native States of Looch Behar and Hill Tippers which are under the general supervision of the Govern ment of Hengal. The area of the Hitlish territory is 78.699 square miles. Bengal comprises the lower valleys and ditlas of the Ganges and Brahmaputra, and in the main consists of a great alluvial plain interset do in its southern great alluvial plain intersected in its southern portion by innumerable waterways In the north are the Himalayan mountain and sub montane tracts of Dargeling and Japaiguri and on the south-east the hills in Hill Hippers and Chittagong while on the west the Chota Nagpur plateau is continued by un undulating tract running through the western portions of Midna pur Bankura Turdwan and Birbhum. The general range of the country however is very low and a great fertile plain extends southward from Jalpakruri to the forests and swamps known as the Sunderbans which lie between the area of cultivation and the Bay of Bengal

#### The People

the inhabitants of the Presidency Of the injuspitants of the Presidency 4287283 or 52 4 per cent are Mahomedans and 20 945 379 Hindus These two major religions embrace all but 2 4 per cent of the population. Christians Luddhists and Animists combined number a little over 1 100 000

Bengali ia spoken by ninety two per cent of the population of the Presidency and Hirst and Urdu by tout per cent. The Oriya speaking people number nearly 300 000 and Naigali is the tongue of 89 000 persons principally residents in the Darjeeling and Jaipalguri districts. The great majority of the speakers of the Munda knounges are Santals in West and North Bengal

#### Industries.

According to the returns of the Census of 1911 nearly 351 million percons or three-fourths of the population derive their support from pa ture and agriculture and of these 30 millions are cultivators and 33 millions farm servants and field labourers. The area under jute in 1915 is estimated at 2082 2,0 against 2872 604; n 1914. To some parts of Eastern Bengal this fibre was considerably damaged by floods. Bengal is the most important rice-producing area in Northern India and it is computed that between the cultivated area of the Presidency is devoted to its production. Other crops because barley wheat pulses and oll weeds the area devoted to the last named being over 2 million sores. Sugar is produced both from the sugar-case and from the date palm and

#### Manufactures and Trade

The jute mills of Calcutta constitute the principal manufacturing industry of the Prainting in the principal manufacturing industry of the Praint depoy During 1014 15 sixty seven utorking mills employed daily on an average 226,224 persons. The war closed a large central market for the raw material but the Calcutta mills have done very well, susta ned as they were by a plentiful supply of cheap material The net profits carned by them amounted to Rg 1 02 promise armed by them amounted to Rg 1 62; crotes as compared with Rs 2 68 crores in 101314 The nom nat rupee capital employed was Rs 8 7 crores of which Rs 7 98 was paid up capital | Up to the declaration of war paid up capital the trade in fute exports was the volume of the trade in fute exports was large and the aggre, ste value rose to Rs. 12 97 crores an increase of 11 12 per cent. The total crores an increase of 11 12 per cent The total value for the year however fell by 33 per cent The particular exports of raw into declined in value by over 7 per cent the lowest since 1904 02. The net colert one real acd from the Jute cess for the Calcutta Improvement Trust amounted to h.s. 7 HO laking in 1914 and Rs. 81 laking icr the first three months of 181. The just rade represented of 87 per cent of the total value of the exports of merchandles from calculate. Other principal industries use cy on twist and year all years. and cloth hund made loth sugar molas es and paper Fifte on cotton mills were at work during 1914 15 employing daily on an average 10 340 pt one. The silk weaving industry is in a declining the E hr was only one silk factory working during 1914 12 which employed 3 hands. The manufacture of tea is carried n su extensive state in Darjeeling and Jalpan gurl In 1914 1, the mustime tr de of Bengal rewhed a total of Rs. 161 36 crores. The loreign trade amounted to Rs. 188 06 crorer the lowest since 1909-10 of which Ba to 66 crares represented imports and Re 75 '99 (rores exports 96 '89 pri cent of the foreign trade pas ed through the Lort of Calcutta and the rest through Chittagong With the readjust muni of the houndaries of Bengal and the crea tion of a new Province of Liber and Orless in 1912 the more important coal fields have passed into the new Province. The number of coal manes, worked in 1914 12 was 178. The total output was 4 4-4 a40 tons against 4 640 tons relied in 191+14 The decree e was due to a falling off in the demand for industriel purposes owing to the war. The daily average or remons employed in the mines was 8 879 and there was a notable advance in the use of electricity Three paper mills produced paper valued at over Re (8 lakbe

### Administration.

The present form of Government dates from the 1st of April 1912 when the administrative changes announced by the King Experor at Delhi in December 1911 came into operation A Governor was then substituted for a Lieute-nant Governor who had previously been at the head of the Province and Lord Carmichael of akirling assumed charge of the ourse. The from the sugar-case and non-the case parm and the sugar-case at the chapter of a grown for local consumption in nearly head of the Province and Lord Caumichael of the 1944 16 was 150 054 acres. There were 297 Governor is assisted by an Executive Council plantations employing a daily average of two of whom are at present members of the latter of the control of the Governor is assisted by an Executive Council,

Civil Secretariat consists of the Chief Secretary, cives secretariat consists or the Chief Secretary, who is in charge of the Political Appendix secretary the Financial Secretary who also deals with Commercial questions the General Secretary who deals with questions of Secretary who deals with questions of Local Self Government and Education and the Logistative Secretary four Under-Secretaries and one Assistant Secretary The Government divides its time between Calcutta Darjeeling and Dacce.

Bengal is administered by five Commissioners negat is administered by five Commissioners ander the Governor in Council the divisions being those of the Presidency Burdwan Rajonah Daeca and Chittagong. The unit of administration is the District Magistrate and Collector As Coffector he supervises the in gathering of the revenue and is the head of all between the Departments connected with it while as District Magistrate he is responsible for the administration of Criminal justice in the district. The Immediate superior of the District Magistrate is the Divisional Commissioner Com missioners are the channels of communication between the local officers and the Government. In certain revenue matters they are, in their turn, subject to the Board of Revenue in Cal cutta in other matters they are under the direct control of Government.

#### Justice

The administration of Justice is entrusted to the High Court of Calcutta which consists of the Chief Justice who is a barrister and 18 pulma judges who are barristers, civilians or vakils. Below the High Court are the District and Additional Judges, the Small Cause Court and Subor directo Judges and the Munsip. Of these officers the District and Additional Judges and a certain number of subordinate judges are also endowed with the power of a Criminal Court while the remainder have jurisdiction in Civil masters only Oriminal justice is administered by the High Court, the Courts of Session and the ocurs of the various classes of magistrates On its appellate side the High Court disposes of appeals from the order of a Court of Session and it also confirms, modifies or annuls sentences of death passed by Sessions Courts Calontia has four Presidency Magistrates, one Municipal Magistrate and also a number of Honorary Magistrates and it possesses a Court of Small Chances with six judges who dispose of cases of

areas of the city the Caloutta Improvement Trust has been created with extensive powers. In the motussil, District and Local Boards exercise considerable powers, with regard to Public Works, Education and Medical relief and Union Committees have been formed which deal for the most part with the control of village reads, mnitation and water-supply

Pinance.

As in other Provinces, the revenue is divided between the Local Government and the Govern ment of India. The Budget for 1915-16 showed an opening balance of Re 2 81 crores estimated evenue amounted to Rs 6 18 crores and at penditure aggregated Rs. 6 58 crores of the closing balance of Rs. 241 lakhs Rs. 220 lakhawas sammarked for various objects.

Public Works.
The Public Works Department is at present under the charge of a Chief Engineer and a temporary Chief Engineer whose appointment has been sanctioned for five years. The redistribution of territories on 1st April 1912 caused considerable changes in this Department and almost all the trigation works in the old province of Bengal as well as two out of the three Canal Revonue Divisions went to the new Province of Behar and Orians There was also a considerable reduction in the staff and in the number of Public Works Circles and Divisions. Public buildings are erected by the Department which also constructs roads and carries out miscellaneous improvements. Irrigation works in Bengal are under the charge of the Irrigation Department which deals with the numerous waterways that intersect the Province.

Police.
The Bengal Police force comprises the Military The Bengal Poice force comprises the animary Police, the District Police the Railway Police and the River Police. The District Police are under the control of the Inspector-General of Police who is usually a Covenanted Civilian, although the office is open to gazetted members of the the omes is open to gazettee members of the Forces Under him are Deputy Inspectors-General for the Dacca Bange, the Rajahahi range, the Presidency range, and the new Burdwan range and also a Deputy Inspector General in charge of the CID, the Railway and River Police. Each district is in charge of a Superintendent, and several of the more import ant districts have an Additional Superintendent. Causes with six judges who dispose of cases of the class that are usually heard in Country Courts in England.

Lecal Government.

By the Bengal Act of 1884 which regulates an indicated an england constables and constables are minicipal bodies in the interior and its subsequent amendments the powers of Communications of municipalities have been increased, sad the elective franchise has been extended. Histalepal expenditure now comprises a large sumber of objects, including veterinary last interial subsequents and the training and employment of simple medical practitioners. The Commissioner with its region of the superiors, Sub-inspectors, head constables and smaller and the regulation of the water special practitioners. The Commissioner with a under him Deputy Commissioners, instances and the regulation of buildings in Calciustica. The Commissioner with the Grairman. The solid number of Commissioners is fifty of the Grairman and the commissioners in the Calciust Calciust. There is another school at the property of the Police is nearly seat and constables, and a reserve force of about 100 supports and the regulation of buildings. In Calciuste City of the Calciust Calciust. There are staining ediage and school at Sarda, in this district of Rapinski where newly appointed passetted officers bub-Inspectors and constables. The seat of the Calciust The cadre comprises Assistant Superintendents

#### Medical.

The head of the Medleal Department is the surgeon General with the Government of Bengal, and Sanitation is in charge of the Sanitary Commissioner both these officials being members of the Indian Medleal Service. There is also a Sanitary Engineer for the Preaddency In the districts the Civil Surgeons are responsible for medleal work. There are supported by the Government and 388,677 persons are treated at these institutions annually, of whom nearly 32 42" are in patients. In the mofused districts there are several hundred horpstals and dispensaries the number of patients treated annually in the Province were 5,77,384 including 60 605 in patients.

#### Education.

In the Presidency of Bengal education is imparted partly through Government agency and partly through private bodies, ageisted in large measure by Government grants in-aid Government maintains three Arts Colleges in Culcutta (of which one is a college for women calculation within one is a copiege for wontry and one the Sanskit College) one at Hughil one at Krishnagar on at Daca, one at Rajatahi and one at Chitagong. It also maintains two training colleges one at talculta and one at Dacca, for teachers who teach in se ondary schools through the medium of English and normal schools one in cash division for the training of teachers in secondary schools through the medium of the vernacular also an engineering college at Sibpur and an engineering school at Dacca a medical college a veterinary college a school of art and a commercial school in Calcutta and a seaving school at Scrampore It also provides at the headquarters of all districts, except Burdwan and Midnapore and also at certain other monusall centres. High Pnglish schools for the education or boys while to each Government Arts College a high withool is attached. In Calcutta there are three high schools for boys two of which are attached to Presidency College and one to the Sanskrit College Government high schools for girl exist only in the head quarters stations of Calcutta, Bacca Mymensingh and Chittagong The other seroudary schools with the axontion of a few middle schools, managed there by Government or by boards are under private control. The administration of primary education in all areas, which are not under numbripalities, rests with the district boards numerpanties rests with the district boards sing grants being given from provincial revenues to the boards which contribute only slightly from their own funds. Only in back ward localities are such schools either entirely managed or directly sided by Government. Apart from the institutions referred to above Apart from the institutions referred to accove its institutions called Gurt Training Schools are maintained by the Department for the training of vernecular teachers For the education of Mahomedans there are senior mediums at Calcutta, Dacca, Onitiagong and Hughli, which are managed by Government There are also certain Government institutions for technical and industrial education A large bodies which are mastered by Covernment mantalu aid.

The municipalities are required to expend a certain proportion of their ordinary income on catuation. They are mainly responsible for primary education within their jurisdiction, but schools in these areas are eligible also for greats from Government. These bottles maintain a second grade Arts College and a high school at Midnapore, a high school at Burdwan a high school at Santipur and a high school at Chittagong.

There are now in the Presidency ---

Arts Colleges	84
Law	10
Medical College	1
Engineering College	1
Training Colleger	5
Secondary Achools	2,557
Primary Schools	35 903
Spec[4]	8.728
Private Institutions	2,874
with 799 889 pupils in all	

The Government Educational Budget allot ment for the province for 1914-1915 is Re. 145 43 900 Of this a large proportion represents the grants result) allotted by the Government of India.

The Department is administered Director of Public Instruction a sisted by an Assistant Director and an Assistant Director for Muhammudan Education and a special officer In connection with Technical and industrial Education Each division is in charge of a Divisional Inspector assisted by a certain number of additional and Assistant Inspectors according to the requirements of the several divisions Himilarly the administrative charge of the primary education of each district is in the hands of a Deputy Inspector assisted by Additional Deputy and Sub-Inspectors of Schools the latter class officers being in some instances beloed by officers of humbler status called Assistant Sub-Inspectors and Inspecting Pandits Higher education is controlled by the University (Calcutta) established in 185" administered by the Changellor (the Governor General and Vicercy of India) the Rector (the Governor of Bengal), the Vice (hancellor (appointed by the Government of India, assually for two years at a time) and 110 fellows of whom 10 are ex-officio 10 are chected by the Graduates 10 by the baculties and the remainder 30 ar nonlinated by the Chapceller The University maintains a Law College called the University Law College Calcuta The University is mainly an examining body but it has now made itself responsible for the actual teaching of students for which purpose it employs an agency which is quite distinct from the staffs of the amiliated colleges Four University professorships (Minto, Carraichae) Hardings and King George V have recently been founded,

The principal educational institutions are --

#### GOVERNMENT ARTS COLLEGES.

Precidency College Calcutta, Principal, H. R. James

Dacca College Principal, W A J Archbold, Rajahah) College Principal, Rai K. Banerji Bahadur Cuittagong Collage Principal, J. R. Barrow Sanskrit College Principal Dr S t Acharya Hughli College Principal J Bettomley Krishnagar College, Principal, S. C. Dev Bethune College Calcutta Lady Principa Miss S Ghosh

#### PRIVATE ARTS COLLEGES Autor

Scottlah Churches College Calcutta Principa Rev J Watt

St. Xaviers College Calcutta Rector Rev Father Crohan

M S. College Bhowanipore (Calcutta) Principal R v A Sims

Jagannath College Darca Principal Rai L M Chatteril Bahadur

Brijamohan College Barasal, Principal N L Mookher lea

Anandamohan College Mymensingh Principal Dr J Ghosh,

Victoria College Comilia Principal Satvendra nath Buen

West van College Bankura Principal Rev J Witchell. Victoria College

Navail Principal Gopal chandra Maitra Hindu Academy Daulatpur Principal Kame

khyecharan Nag Serampore Coit ge Principal Dr George Howell St Paul's Cathedral Mis ion College Calcutta

Principal W b Holland Edward College Pabna Principal, R Bose

Diocesan Coll ge Calcutta Lady Principal Sister Mary Victoria City College Calcutta Principal Heranib

Chandra Maltra Ripon College Calcutta Principal Ramendri

dandar Trevedi

Baugabasi College Calcutta Principal G ( Bone Metropolitan Institution (Alcutta Principal

Saradaranjan Rov Bishop's College Calcutta Irincipal, R v R

Central College Calcutta Principal Khudiran

Bose Krishna Chandra College Hetampur Principal Dhuramdas Dutt

Burdwan Raj College Principal Umachara Bandopadhayaya

Uttarpara Coli ge Principal, Jogendra Nati Mitra.

Krishna Oollege Berhampore Principal S Baneril (offg.) Loreto House Calcutta Lady Principal Mother GOD SASSA.

#### MUNICIPAL

Mdaapor Colleg. Principal, Jogendra Nath R P C Lyon 0.81, 10 8 Harra.

COLLEGES FOR PROFESSIONAL TRAINING Engineering - Government

Ivil Lugineering College Sibrur Principal B Heaton

Tea king-Government

la id Hare Training College Principal W E Griffith

lacca Training College Principal E E Biss 4 ided

L M S Training College Bhowanipore (Calcutta) Rev A Sim

Medicine - Government. [ dica] College Calcutta Principal, Lt.-Col

J T Calvert Tann

Talv reliv Law College, Calcutta, Principal Dr batla

The Law Department attached to the Dacca College Vice Principal Musszam Alf

The Law Department attached to the Ripon Colleg Cel utta Principal Jankinath Bhat tacharii

There are also Pl adership classes attached of the Government Coll g s at Dacca Rajshah th Hoogly, chitstagong and Krishmaper, and not haded college at Berhamper, the Riper ollege and the Metropolitan Institution alcutts, and the Municipal College at Midna

### Administration

GOVERNOR AND PRESIDENT IN COUNCIL.

'Ils Excellency The Rt. Hon Thomas David Baron Carmichael of Skirling 6 C.L.R. K.C.N G Took his seat 1st April 1912 PERSONAL STATE

Pravate Secretary W R. Gouriay

Military Secretary Capt Henry George Vana Surgary Capt W L. Harnett IMS

index de Camp Capt W. P. Ocook Middlews Reg ment 2nd It Duncan Balfour Lothian and Border Horse

Honorary Auden-de-Camp Lieut-Col C M
Pearce, v D Commander E A. Constable,
R N Lt Col R Gleu v D Hony Col.
C Routh Li Col. R. S Hawkits v D Com
manier Duncan, Frederick Vinc. R. I M. Lt -Col D A Tyrle, V D

zira Aide-do-Camp, Lt J L Mercer 5th Battallon (Quren's Royal West Surrey Regt) 'adian Aide-de-Camp Risaldar Ismail, Khan Behadur ommander of Body Guard Lt H. A Garaton 21st Cavalry

BENGAL EXPOUTIVE COURGIL

V D Beatson Bell, Took his seat, November 1014

P C Lyon Cal Took his seat, 1st April 1912. sved Shama-ul Huda. Took his seat, 1st April 1912.

LEGISLATIVE COUNCIL OF BERGAL. Councillors Es-Officia.

Nominated Officials	Secretary to Government, Public Works Depart
Mr James Donald	ment, and Chief Engineer H H Green
F J Monahan	Under Secretary to Government, Public Works
	Department (terregation Branch) Apadi Vath
, F A A Cowley	) Mitra
J H Kerr olb	BOARD OF REVENUE
Kiran Chandra De Cla	Member D J Macpherson C.I.E.
СН Вопары,	Secretary W A Marr
L Birley C.I.E.	MISCELLANEOUS APPOINTMENTS
(ol. W. R. Edwards CB 1M	Director of Public Instruction W W Hornell
	Principal School of Arts P Brown Inspector General of Police R. B Hughes
Mr B B Newbould	Inspector General of Police R. B Hughes Buller CIM
Binod Chandra Mitra	Comr usnoner, Calcutta Police Reginald Clarke
W W Hornell	(Offg)
Rai Priya Nath Mukharji Bahadur	Conservator of Forests C E Muriel
Wr C F Payne	Inspector General of Civil Hospitals Col G F
	Harris CIR.
Nominated Von-officials	Sanutary Commissioner Major W W Clemesha.
\awab Bir 4sli Qudr Ba'vid Wasi( 4'i Mirzo	Deputy Sandary Communicationer for Malaria Research Major A B Frv
Khan Bahadur Krvo of Murshidal ad	Collector of ( untome Calcutta E & L. L.
Vr H J Hilary	M Loregor IC8
Satyendra Prasanna Sinha	ommissioner of Excuse and Salt A. N. Moberly
Dr Vilratan Sarkar	Accountant General H G Tombins CIE.
laja Hrishikesh Laba, CLE	Inspector-Ceneral of Prisons It-Col. W J
	Buchanan CIE
Lt Col R Glen	Postmaster General P G Ropers, 1 C S   Inspector General of Registration P N
Elasted	Mink horal
Mr Byomkes Chakravarts	Director of Agriculture J R Blackwood
9ir Bljay Chand Mahtab	Protector of Emigrants C Banks, M D
Vaharaja Jagadindra Vath Ray	Director of Agriculture J R Blackwood Protector of Emigrants C Banks, M D Chairman of Calcutta Corporation C F Payne.
	Superincentent Royal Dolante Vargens 312101
Raja Soehi Kanta Acharyya Chaudhuri Baha lur	A. T. Gage Coroner F h. Dobbln
Dr Deba Prosad Sarbadhikari	Registers of Co-operative Credit Societian J. N.
Maulyi Muhamad Ism iil Khan Chaudhuri	Mitro
ita: Badhacharan Pal Bahadur	
Mr Elward Hugh Bray	LIEUTENANT-GOVERNOR- OF BENGAL
Archibald Birkmyr	Frederick J Halliday 1854
	John I Grant 1850
W T Order	Cecil Beadon 1862
G A Baylev A W Crebswell Chaplin	William Grey 1867
" Golam Hoosain Cassim Ariff	George Campbell 1871 Sir Bichard Temph Bart K C 8 1 1874
Yunshi Maxbarul Anwar Chaudhuri	The Hon Ashley kden 0.8 t 1877
Maulyl Musharraf Hussain	Sir Stepart C Bayley E.C.S.I. (Offic.) 1879
Vaulvi Abdul kasem Fazl ul Haq	A Rivers Champson C ST C.IE 1882
Nawab Saiyid Hoosain Haldar Chaudhuri	A Rivers Champson C 81 C.I.E 1882 H A Cockerell C 81 (afficiating) 1885 Sir Stauart C Bayley E C 8.I C.I.E. 1887
Rhan Bahadur	Sir Stanart C Bayley E C S.I C.I E. 1887
Maharaja Hanajit Smba of Nashipur	Sir Charles Alfred Elliott, E 0 8 1 1890
Rei Nalinaksha Basu Bahadur Reis Mahandra Rapina Ray Rahadur	Sir A P MacDonnell K ( of (Offig ) 1893 Sir Alexander Mackenzic K ( S I 1895
Raja Mahendra Ranjan Rav Bahadur Nanab Haiyid Nawab Ali Chaudhun, Limn	Retired 6th April 1898
Rehadur	Charles Cecil Stevens CSI (Officiating) 1897
Babu Prasanna Kumar Roy	Sir John Woodburn E C S I 1898
Babu Prasanna Kumar Roy Babu Burendra Nath Banarji	Total 91st Nov 1002
Babu Surendra Nath Rov	J 4 Bourdillon C 81 (Officiating) 1902
Babu Mohendra Yath Ray Rai Hari Mohan Chandra Bahadur	Sir A H Leith Fraser K CB I 1908
Man Mandan Tal Day	Lancelot Hare, OSI Q.IE. (Offig) 1906
Babu Upendra Lai Hay	F A Slacks (Officiations) 1906 Sir E N Baker E C S L 1908
SECRETARIAT	Retired 21st Sept. 1911
Chief Secretary to Government J G Cumming	F W Duke, OSL (Officiating) 1911
O.I.B.	The office of Licutement-Governor of Bengal
Secretary Revenue Department, J. H. Kert. C.I.n. Secretary General Department H. F. Samman	was abolished on April 1st 1912 when Benzal
Secretary Financial Department, H. L. Stephen	was raised to a Governorship
Son.	GOVERNORS OF THE PRINCIPESCY OF FORCE
Secretary Judicial Department, E P Chapman	William in Bringel
Secretary to the Council and Secretary Logislation Department, L. W. Watson	The Rt Hon Baron Carmickeel of 1912
Department, L. W Watson	Skirling, G C.I B., K.O.K C.
· ·	

# The United Provinces

The United Provinces of Agra and Oudh lie in practically the centre of Upper India. They are bounded on the north by Tibet, on the moth-sust by Negal, on the south and south-sust by Bengal, on the south by two of the Chota Ragper States of the Central India Agency and the Sangor District of the Central Provinces, and on the west by the States of Gwallor, Dhot pur, Bharatpur Sirnor and Jubbat and by the Panjab. Their total area amounts to 107,287 super miles, to which may be added the area in the Central Indians. square miles, to which may be added the area of the two Native States of Tehrl and Rampur both of which lie within the United Provinces. 5,079 square miles and the newly-created inde pendent State of Benares with an area of 865 miles, giving a total of 112,346 square miles. The total population is 45 014 080 out of which Tehri and Rampur account for 832,030
The Provinces, originally termed the North-

Western Provinces and so amaignmented in 1877, receiving their present designation in 1902, in chade four distinct tracts of country portions of the Himslayas, the sub-Himslayan tracts (the the rimmings, the seat-minasysts track that Kunson), the great Gangetic plain and por tions of the hill systems of Central India (Bun delthand). The first two of these tracts are in Swills and support a very sparse population and the Central Indian plateau is almost equal ly injectile, though better populated. The soil of the Gangetic plain, however possesses an extreme tertility and here the density of popu lation rises from 512 persons per square mile in the west to 549 in the centre and 718 in the is the west to 549 in the centre and 718 in the east, which gives the Provinces as a whole sprace population pressure on the soil than say other Provinces in India. In the south there are low rooky hills, broken spurs of the Vhofkyan mountains covered with stunted trees and innoje, and in the North the lower stages of the Himalayan clothed with dense thouset, affording excellent big and small game shooting, and rising beyond in a tangled mass of ridges, ever higher and higher, until is reachested the line of the eternal mown, but the greater part of the provinces consists of level plain toessing with highly cultivated fields and watered by four rivers—the Ganges, Jumna Gogra and the Gunsti. and the Gurati.

#### The People.

The population is mainly Hindu, 85 per cent.

The principal industry is agriculture which supports no less than 71 7 of the population. The soils of the Provinces fall into three groups the valley soils of the Himal syss, the main siluvium and the Central Indian alluvium is the black soil, with La lighter variant, though hore also there are light loams and gravel. The Himalsyan soils are of load origin and ways with the patter of are of local origin and vary with the nature of the rock from which they have been formed whilst the main alluvium soils are sand, day and loam, the loam being naturally the most productive. The soil generally yields excellent erops of rice millet make linesed, cotton wheat sugarozase, pulices, bariev and poppy rice being grown mostly in low lying heavy clays. The greater part of the Provinces is light-cultivated, the rainfall varies from 50 to 60 inches in the Hills to 40 inches in the Be nares and Gorakhpur Divisions whilst the Agra Division receives about 25 to 30 inches annu ally only Drought seriously affected Bundel ithand and the Agra Division in the past, but improved drainage, and irrigation (a pro-tective system of irrigation works exists and is tective system of irrigation works exists and is being extended) have enabled a complete recovery to be made and the agricultural pro-perity of the Provinces is now high, though it varies with the rainfall. The great scorge has been, and is, that of plague which hampers the agriculturist severely and in the Terai malaria still exacts a large toil. Land is malaria still exacts a large toil. Land is beld mostly on the yotwari temure in Bundel khand and Kumson, on semindari tenure in Agra and tenure in Oudh. The principal laud owners in Oudh are the Taiuqdars some of whom own very large estates. The area held in taiuqdari tenure amounts to 51 per cent. of the total area in Oudh

#### Manufactures.

The Provinces are not noh in minerals Coal exists in Southern Miraspur Iron and copper are found in the Himalayan Districts, and there were mines of importance there formerly but increased difficulty of worksabling as such whilst Mahomedans number 14 per cent. the total of all other religions being inst than 0 6 per cest. composed of Christians (Europeans and Indians). Jains, Aryas and Sikhrishe Aryas are the followers of the Aryas and store is targely quarried in the family and has extended its influence to the United Provinces. The three main physical types are Dervidian Aryan and Mongoloid, the history being confined to the Himalayas and store is targely quarried in the Market being confined to the Himalayas and store is targely quarried in the Market being confined to the Himalayas and store is targely quarried in the provinces. The substant are species by the great majority of the store are 180,000 on the Him spining and 184,000 on the decrease. The substant are spoken by the great majority of the market are are 180,000 looms. Him spining and the plants of the decrease. The substant and Bundeline are spoken by the great majority of the market are are 180,000 once the spining and th broldery is manufactured in Lucknow where the noted obliges work of silk on cotton or muslin, is produced, and in Benarcs, where gold and silver work on velvet silk, creps and assessed obtains. The giase industry is important in some districts, Benarcs and Mondabad are noted for their lacquered brass work porcelain. is manufactured at Chasipur and other industries are those of paper making (Lucknow) dyeing, leather work and fireworks. The chief centre of European and Indian industry is Cawn porte which, situated in most advantageous position on the Ganges, possesses tanneres cotton woollen jute and other mills, which have a large and ever increasing output (the woollen mill is the largest in India). There are output the statement of the largest in India). mai is the largest in india) There are conton inctories at Aligarh (famous for its locks) Meerut and Bareilly Mirkapur (which produces also excellent carpets) Hardel and Hathras have cotton mills. Excellent furniture is made at Barellly at Allahabad there are stone works Excellent furniture is made at at Rosa there is a very large English distillery with patent still and the provinces can claim six breweries with an out turn of over a mil ion gallons.

The largest trade centres are Cawapore Allahabad, Mirrapur Benarca, Lucknow Meerut, Aligarh, Hathras, Muttra Agra Faruhhabad Moradabad, Chandausi Barelli, Saharanpur Muzufarnagar Ghaziabad Khuris Gorakhpur Ghazipur Pilibhit and Shahjabanpur

### Administration

The Provinces are administered by a Lieutenant-Governor who is generally chosen from among the members of the Indian Olvil Sarvice who have served in the Province The medium for the transaction of public busi ness is the Secretariat the Staff of which con ness is the Secretariat the Staff of which consists of five heerelaries and five Under Secretaries. The Chief Secretary is in charge of the Revenue, Appointment General Administration, Political and Forest Departments another Secretary attends to the Medical Judicial Police, Reducational and Sanitation Departments whilst a third looks to the Ideal Self Government Financial, Municipal Miscel laneous and Separate Revenue Departments. sancous and separate revenue populariments.
The other two Secretaries belong to the Public Works Department and are also Chief Engi news, one of whom deals with Irrigation and the other with Roads and Buildings. Govern ment spends the cold weather October to April, in Lucknew and Allahabad, mostly in Lucknew the Secretarist moves between these two places. the Scoretains invess between these two places.
The Lieutenant-Governor and the Scoretariat spend the hot weather in Nami Tai, but during the monacon the Lieutenant-Governor tours the plains, as he does also in the cold weather.
The Board of Revenue is the highest court of averaged in suggestion of the court of average in the second of appeal in revenue and rent cases, and it has im portant executive duties being the chief revenue anthority in the Provinces. There are forty anthority in the Provinces. There are forty clent British districts, thirty-six in Agra and twelve in Oudh average area 2,000 square miles twetve in Ondh average area 2,000 square miles and average population a million Each District is in charge of a District Officer termed a Collector and Rightrate in Agra and a Deputy Commissioner and Rightrate in Ondh and Kumaon, who is an Indian Civilian The Districts are grouped together in Divisions, under a Commissioner There are nine Divisions, having an average area of nearly 12,000 square miles and a population of from 0 to 6 millions.

The Districts are sub-divided into takeils, of The Districts are sub-divided into takens, or which there are 217, with an average area of 500 square miles and a population of 230,090 Each Tukell is in charge of a Tukellon, who is responsible for the collection of revenue, and also exercises judicial powers. Tukello are divided into paryanas which are units of importance in the settlement of land revenue. Sub-ordinate to the Tukelloren or beautomate of the temporation of the settlement of land revenue. ordinate to the Taheilders are kanungos whom there are on an average three to a taked. These officials supervise the work of the These officials supervise the work of the pateorus, or village accountants, check their papers and form a link direct between the villagers and fovernment. For judicial purposes (rovenue and crimina) the District Officer asigus a subdivision, consisting of one or more tabets as the case may be to each of his subordiates. nates who may be covenanted civilians, (John and Assistant Magistrates and Collectors) or members of the Provincial Service (Deputy Collectors and Magistrates). The Commissioner of the Barolity and Kumaon Divisions are Political Agents for the Native States of Rampur and Tehri respectively and the Commissioner of Benares is the Political Agent for Benares State.

# Justice

Justice is administered by the High Court in the Province of Agra and the Court of the Judicial Commissioner in Oudh which are the final appellate authorities in both criminal and civil cases. The former, which consists of a Chief Justice and five pulsare Judges two of whom are Indians site at Aliahabad, and the latter represented by a Judicial Commis-sioner and two Additional Commissioners one of whom is an Indian site always in Lucknow There are twenty-seven District and Additional District Judges (Indian Civilians) twenty-one in Agra and six in Oudh who have both original and appellate jurisdiction in civil and criminal cases and occasional appellate jurisdiction in rent cases but District Officers and their assistants including Tahaildars preside in oration including rankagare preside in course and dispose of a good deal of the work. In Kumaon, the Commissioner is a High Court Judge in Criminal cases, and a District Judge in Criminal cases. In the larger Cantonments, the Cantonment Magistrates have limited powers as Judges of Magistrates have limited powers as Judges of a Small Cause Court. There are also Subor dinate Judges Judges of Small Cause Courts and Minstis, who dispose of a large number of small civil suits being specially empowered, in some cases, to decide suits up to Rs. 2,000 but generally they take cases up to Rs. 1 000, whilst Subordinate Judges hear cases up to Rs. 5 000 Appeals from Mussils and Subor dinate Judges go to the District Judges Small Cause Court Judges try suits to the value of Rs. 500 There are also Honorary Munsils, whose jurisdiction is fixed at Rs. 30 suits, and village Munsils, whose jurisdiction is fixed at Rs. 30

# Local Government.

Local Government is executed by means of District and Municipal Boards, the former leving local rates on land-owners the latter deriving its revenus from outral and other forms of taxation. The also is to abolish cetrol, because it interfered with through trade. Righty-five Municipalities possess the privilege of electing their own members and some of them have non-efficial

man cation, lighting, town improvement, roads water supply drainage and education Grants are made to Boards by Governments in some cases for special purposes from general reve | Ritir | The present cost of the force is 128 laking anes. There is a tendency in the Provinces to give local self-government a wider extension in charge of an Inspector-General of Prisons by means of an increase in the number of boards who is a member of the Indian Medical Service with non-official Chairmen and recently this privilege has been extended to fifteen Municipalities. Small towns termed Art VX towns also migo some measure of locar self govern tained and partly by means of grants in-attl. There is a State University at Allahabad Government cannot be a state University at Allahabad Government cannot be a state University at Allahabad Government cannot be a state University at Allahabad and Pereign are taught in special.

# Finance

The Financial history of the Province not been a happy one, inadequatements, a contracts between the Gov one, inadequate settlements, a contracts between the tooy erament of Inda and the local Government and the severe famine in 1897 having caused Provin cial bankruptcy which for a long time necessita ted rigid economy in order to accumulate re-serves which could be spent on productive works. Recently liberal Imperial assignments have been made by the Government of India and the financial prospects are accordingly much brigh ter giving hopes that ambitious schemes of reform will be able to be carried into effect The local Government gets 3-8 only of the land revenue. The Provincial Budget for 1915 16 shows an opening balance of 191 lakks revenue of lakhs, and expenditure 691 lakhs and a losing balance of 93 lakhs

# Public Works

The Public Works Department is divided into the Boads and Buildings branch and the Irrigation branch, each of which is administered by a Chef Engineer who salso a Secretary to Government. The Pruvinces are divided into three circles and ten diviinto the sions for the administration of roads and build ings, and into four circles and twenty divisions for irrigation purposes. Each circle is in charge of a Superintending Engineer and cach drvl sion is in charge of an Executive Engineer. The whole of the irrigation works constructed or maintained by Government are in charge of the Department nearly all metalled roads and also bridges on second-class roads, and gener ally all works costing more than Hs 1 (40) ex cost in Municipalities. The most important irrigation works within the last twenty years have been the construction of the Betwa Canal the Fatchpur branch of the Lower Cauges Canal, the Mat branch of the main Ganges Canal improvements in the Robilkhand and Terai Canals and extensive drainage operations in the Doab districts of the Meerut and Agra d vi

Chairmen They are generally composed of two Railway Superintendents, and thirty Associated and elected members, with an official sistant Superintendents. There is a Police Chairman who guides them in their duties Training School at Morados There is a They deal with questions of sanitation, com- local C. I D forming a separate detective deaistant Supermonents, Infere is a roser Training School at Moradabad There is a local C. I D forming a suparate detective de-partment, under a Deputy Impector General, with an accustant. There is an armed police specially recruited, and armed with the Martin Rills. The present cost of the force is 124 lakha.

dasses at the Muir College Allahabad, which also has a special science side which of tate has been greatly extended and there is a Gov ernment Engineering College at Roorkee (Thom criment angineering College at Roorkes (Thom ason College). There are sided Colleges in Lucknow (Canning College) (Reid Christian College) and (Isabella Thoburn College) Agra (St John Mallgarh (the Mahomedan Oriental College). Gorakpur Cannpore and Meerut and an unaided College at Benares the Central Hindu College In Lucknow there is the Marti niere school an entirely independent institu-tion for European and Anglo Indian children and there is a Girls Martiniere connected with it whilst in the Hill Stations, Naini Tal and Museorie there are many excellent private scholastic institutions for European boys and girls, which are attended by students from all over India Government maintain Training colleges for teachers in Lucknow and Allaha bad an Art Crafts and an Industrial School in Lucknow and an Agricultural College at Cawopore Public Schools are almost entirely maintained by the District and Municipal Boards and primary education is almost entirely in their hands. Primary and female education are in a very backward condition and a Com-mittee has recently been sitting at valid. Tal to suppost a remedy Technical education is being pushed forward and there is a proposal to establish a Technological Institute in Cawn pore At the close of 1912 there were 1858 urhan schools attended by 103 133 scholars and 10 003 rural schools attended by 482,355 scholars and the number of secondary schools for Indian boys was 545 str., Anglo Vernacular High Schools 102 with 42 611 scholars, Vernacular Meddle Schools 375 with 45 578 scholars and English Middle Schools 68 with 10,284 scholars. The amount budgetted for education this year is 67 lakhs.

Higher education is controlled by the Allaha bad University (constd. in 1887) which consists of a Chancellor Vice-Chancellor and seventy the Doah districts of the Meerut and Agra d vision. Important irrigation extension writes are its ordinary and four ex-ofices Fellows, of now being considered. The budget for irrigation and other public works for the present part is 144 takes.

Palice

Palice

Palice

Palice

The Police Force is divided into District and Railway Police and is administered by a failway Police and is administered by an important Law School. It is proposed to establish a Mishomedian University at Aligari of important in charge of Railways and two and a Hindu University at Aligari and Hindu University and Hindu University at Aligari and Hindu University and Hindu The principal educational institutions are — Honorary Aules-de Camp Lieut Coi P H
The Mahomedan Angle-Oriental College, Clutterback Lieut, Col J H E Beer C.I.R
Phylogen I H Towle Aligarh-Principal, J H Towle The Central Hindu College Benares-Principal P B Adhikari offg John e College, Agra—Principal, Rev A W Dayles
Muir College Allahabad—Principal & G Jennings Queen's College Benares-Principal

1-arrel

Cameron Agra College—Principal T Cuthbertson

Jones Reid Christian College Lucknow-Principal Rev T C Badley

Meerut College-Principal William Jesse Woodstock College Mussoorie—Principal Rev H M Andrews

Barcilly College-Principal J H Alderson Christian College Allahabed-Principal Rev C A R. Janvier

Christ Church College Cawnpore-Principal Rev M. 8 Douglas

Isabella Thoburn College Lucknow-Princl pal Miss Robinson

Thomason College Roorkee-Principal Lt Col E H de Vere Atkinson King George's Medical College Principal, Colonel Selby 1 M S Lucknow-

# Medical.

The Medical Department is in charge of an Inspector General of Civil E A Civil Surgeon is in charge Hospitals responsible for the medical work of each dis trict and in a lew of the larger stations he has In two stations (Kankhet and an assistant Almora) Medical Officer in inlitary employ hold collateral civil charge. There are cighty three Assistant Surgeons in charge of important dispensation and a large number of Indian hospital assistants. Lady doctors and female hospital assistants visit purda nathin women in their own homes and much good work is done in this manner

The best equipped hospitals for Indian pa tients are the Thomason Hospital at Agra and the Balrampur Hospital at Lucknow The Ramsay Hospital for Europeans at Naini Tai i a first class institution and there are also the Lady Dufferin Hospitals. King George a Mcdrell College and the hospital in connexion with it have been opened recently in Luknow The College is one of the best equipped in the country with a staff of highly efficient professors, and the hospital is the first in the Provinces There is an X Ray Institute at Dehra Dun, where valuable research work habeen carried out and the Pasteur Institute at Ka sault take cases from all parts of India are there are sanatoria for British soldiers in the Hilla.

### Administration.

Lieutenant-Governor Sir J S Muston, KOBJ Assumed charge of office 16th Beptember 1912 Private Secretary A P Collett, 1 C S.

Lieut Col P H Subadar Major Kanhal Praced Dube Risaldar Major Oudret Khan Bahadur

LEGISLATIVE COUNCIL OF THE LIEUTPHANT GOVERNOR.

President, The Lieutenant-Governor Vice President J M Holms CS1

Canning College Lucknow-Principal M B H H Nawab Sir Muhammad Hamid Ali Khan Bahadur GCIE GOVO Wali of Rampur Kunwar Adıtva N Singh of Benares.

J S Campbell GS L GJF

Raja Sir Muhammad Tasadduk Rasul Khan, E.CSL

\awsb Mumtaz ud-daula Sir Muhammad F All Khan Kule Kevo csi, of Pahasu. A W Pim

A L Saunders CXI

R. Born

Rai Nathi Mai Banadur tilE

Varsingh Prasad

S P O Donnell

Rana Sr Sheoral Singh KCIE W G Wood

Col. C Mactaggart CIE LM. 8

C F de la Fosse

O M Straight

H R C Hades

H & Ferard.

F Mackinnon Dr Tel Bahadur Sapru

Rai Gokul Prasad Bahadur

John Mitchell Holn.

Mahadeo Prasad

E H Astworth

Saiyid Muhammad Abd ir Pau

Shankar Sahai Sahib

Balak Ram

Raja Kushalpal Singh

Brij Nandan Prasad

Moti Lal Nebru S 1 id Muham d Hadi Khan mahadur

Maharaja Sir Bhagwati Prasad Singh KOLL

of Balrampur Wotl Chand

O T Anthony

laivid Raza All

thalkh Shahid Hosain

Asghar Ali Khan H rhert Watson Pike.

Bishambhar Vath

Buktle Singh

Lt -Col & H Henderson

H V Lovett

Raja Ramlal Singh CLR. of Kurri Sudanli

Logie P Wateon

Mosivi Salyid Karamat Hussalu	The Hight Hon the Governor-General in the North-Western Provinces (Lord	1888
George Gell Sin.	Anckhand)	
Pandit Jagat Narayan	T C Robertson	1640
Pandit Tara Dut Gairoliar	The Right Hon the Governor-General	1842
BECRYLAXIAT	in the North Western Provinces (Lord Rilenborough)	
Chief Secretary to Geternment, B. Burn.	Sir G R Clerk K C B	1843
Financial Secretary to Government, A. W. Pim.	James Thomson Died at Bareilly	1B43
Judicial S P O Donnell	A W Begbie In charge	1863
Secretary to Government, Public Works Dept !	J R Colvin Died at Agra	1853
(Buildungs & Roads & Railways) W G Wood	E A Beade In charge	1857
6.81 Secretary to Government Public Works Dept	Colonel H Fraser CB Chief Commis	1857
(Irregution), G T Anthony	cionar h W Provinces.	
Registrary F E Lowe A Grant W J Summers F C Richardson, ROARD OF REVENCE	The Right Hon the Governor-General administering the N W Provinces (Vincount Canning)	1858
Manbers J M. Holm, CSI, J S (ampbell)	Sir G F. Edmonstone	1859
C.S.L. C.I.R.	R Money In charge	1863
Secretary J B Goudge	The Hon Edmund Drummond	1863
	Sir William Muir E C 8 1	1868
Miscrilations appointments	Sir John Straches K C 8.1	1874
Opium Agent Ghanpur C E Wild	Sh George Couper Bart, C.B	1876
Director of Land Records and Agriculture H R C Halley		ORTH
Director of Public Instruction C F de la Fosse	WESTERN PROVINCES AND CHIEF COM	EIS
Inspector-General of Police D M Straight	STOKER OF OUDE	
Inspector-General of Civil Hospitals Col C	Sir George Couper Bart of Kust	1877
Mantaggart, M. A. M.B. C. E. CM.S.	Sir Aifred Comyna Lvall R C B	1889
Sentiary Communicate Lieut (of S A Harriss Lu.s.	Shr Anckland Colvin KCMG (IL	1887
Inspector-General of Registration W Raw	Sir Chas H I Crosthwaite E C S L	1899
Companioner of Excuse T A H Way	Alan Cadell (Officiating)	189:
Assumingt-General J F Graham	Sir Antony P MacDonnell LCSI (a)	180.
Inspector-General of Prisons Lt (ol. 4. H	Sir J J D La Touche L.c s.:	190,
Henderson M.B., G M I M S.	(a) Afterwards (by creation) Baron MacDo	nnell
Pectuazier-General C J H Hogg	LIEUTENANT GOVERNORS OF THE U	HITE
Chamical Analyses and Bacteriologist, Dr. E. H. Hankin	"PROVINCES OF AGRA AND QUDE.	- 000
LIBUTHEANT-GOVERNORS OF THE NORTH	Sir J J D La Touche, K C S.L.	190
WESTERN PROVINCES	Sir J P Hewett E.C. 81 G12	1907
	L A S Porter CRL (Officiating)	191:
BRLC I Wenderic Date 6 (B 1920	Sir J S Meston KC 8.L.	101

# The Puniab.

The Punjab or land of the five rivers, is so is largely urban. The western plains cover cilled from the five rivers by which it is so is a sec of \$9.000 square miles with a populated, namely the Judium, Chenab Bay, lation of a little over six millions. The rain Bays and Sude) Togother with the North sall in this area, heaviest in the north and wast Frontier Province and the Native State of Lammu and Rashmit which lie to the north is everywhere so scently that cultivation is only is everywhere so scently that cultivation is only the Punjab occupies the extreme north west orn corner of the Indian Empire and with the cm orner of the Indan Empire and with the exception of the above-mentioned province, comprises all of British India north of find and Rajputana and west of the river Jumma Prevous to October 1912 the Punjab with its feudatories embraced an area of 136 330 square miles and a population at the Cousas of 1911 of 24 187,750 (inclusive of 28 587 transforation abluship) that is to say about one-thirteenth of the area and population of the Indias Empire. But the tornetic of a semi-Indian Empire But the formation of a sepa rate province of Delhi reduced the area and rate province of Deihi reduced the area and population of the Pranjab by about 450 square miles and 880 000 souls respectively. Of the total area of the Punjab, 86 551 square miles are in Native States (34 in number) with a population of 4212 784 and 2586 square miles are tribal territory on the western border of Dera Ghazi Khau district with a population of 22,587

# Physical Features

the west. The north east is occupied by a section of the Himslayas and the Salt Range forms its north western angle A few small sound he south western angue or ownsens spurs of the Aravaill mountain system traverse the extreme wouth-east and terminate in the Ridge at Delbi The Funjab may be divided into five natural divisions The Himalayan tract includes an area of 22,000 aquare miles with a scanty population living scattered in tiny mountain hamiets. The salt Range tract includes the districts of Altock Range plud and Jagium and part of Shahpur district Its physical configuration is broken and con fused and the mountainous tracts of Murree and Kahuta approximate closely in character latics to the Himalayan tract. Except in the hills, the rainfall leaves little margin for protec hills, the rainfall feaves little margin for protection against distress in unfavourable seasons and irrigation is almost unknown. Skirting the base of the hills and including the low range of the Siwalks runs the narrow sub montane tract. This tract, secure in an ample rainfall, tract. This tract, secure in an ample rainfall, and traversed by streams from the fillic comprises some of the most fertile and thickly populated portions of the province. Its population of over four millions is almost wholly agricultural and pastoral but it includes one large town in Sinkot. Of the plains of the Punjab, the eastern portion covers an area of some \$5000 square miles with a population of 104 millions. East of Labore the rainfall is everywhere so far sufficient that cultivation is possible without irrigation in fairly hypomethies as the mangin is so alight that except where area the mangin is so alight that except where highly one ample open, and material reduction

is everywhere so scanty that cultivation is only possible with the aid of artificial irrigation or upon the low lying river banks left moist by the retreating floods. In this very circumstance, these cracts find their search signal farmine for there cultivation is almost independent of rain a failure of which means nothing worse than a searchty of grass 80 little rain is sufficient, and absolute drought occurs so seidon that the crops may be said never to fail from this cause. The western plains embrace the great colony areas on the Lower Chemab and Lower Jhelum Canals which now challenge the title of the eastern plains now challenge the title of the eastern plains as the most fertile, wealthy and populous por tions of the province Multan and Lyadjour are the largest towns in the western area. Owing to its geographical position its ecanty rainfall and cloudless skies, and perhaps to its wide expanse of untilled plains the climate of the Punjab presents greater extremes of both heat and cold than any other portion of the The animome from Anni to Rendem India The summer from April to Septem ber is scorchingly bot, and in the winter The greater part of the Punjab consists of sharp frosts are common But the bright one vast alluvial plain, attetching from the sun and invigorating air make the climate Junna in the cast to the Suleman Range in of the Punjab in the cold weather almost

### The People.

Of the population roughly one half is Malcomedan three eighths Hindu and one-eighth Sikh Socially the landed classes stand high and of these the Jats numbering nearly five millions are the most unportant. Roughly speaking one half the Jats are Mahomedan, one-third Sikh and one-sixth Hindu. In distribution they are thicquitous and are equally divided over the five divisions of the province. Next, in importance come the Ratputs, who Next in importance come the Bajputa, who number over a million and a half. The manumber over a million and a half. The ma-jority of them are Mahomedans by religion, about a fourth are Hindus and a very few Sikhs. They are widely distributed over the province. Both Jats and Rajouts of the Pun-jab provide many of the best recruits for the indian Army. The Gujars are an important agricultural and pastoral tribe chiefly found in the eastern half of the province and in the extreme north west. In organisation they closely resemble the Jats and are often absorbed into that tribe. There are many minor arri closely resemble the Jats and are often absorbed into that tribe. There are hany minor agri outtural tribes, priestly and religious castes (Brahmans, Sayads and Kureshie) most of whom are isncholders, the trading castes of the Hindus (Khatris, Aroyas and Banias) and trading castes of the Hahomedani (Khojas, Parachas and Khakhas) and the numerous rations and menial cates. There are also vagrant and criminal tribes and torsign elements in the population are represented by the Baluchis of Dera Ghazi Khan and neigh area are margin is so saint that or over where the marches of here thanks and heaps in trigation as employed, any material reduction but he rainfall involves distress, if not actual about half a million and maintain their tribal, familiae. Within the eastern plains lie the large cities of Labore and Amritear, and the popular lie minute in the rainfall from the castern plains is a cast of the province are also found then in comparison with the western Punjab scattered all over the province engaged in districts

Languages.

The main language of the province is Punlabl, which is spoken by more than half the population. Western Punjabl may be classed as a separate language, sometimes called Lahnd' and is spoken in the north and western the next most important languages are Western Hindl which includes Hindustani, Urdu (the polished language of the towns) and other Hind. Western Pahari which is spoken in Che polished ianguage of the downs and other Bindi. Western Pahari which is spoken in the hill tracts and Rajasthanl, the language of Rajputana. Baluchi Pushto Sindhi and Tibeto Burman languages are used by small proportions of the population

Agriculture
Agriculture is the staple indu try of the province, affording the main means of sub sistence to 56 per cent of the population. It About one-sixth of the total area in British districts is a overnment property the remain ing five-sixths belonging to private owners. But a large part of the Government land is so situated that it cannot be brought under so situated that it cannot be brought under cuttivation without extra size irrigation. Thus the Lower Chenab Canal irrigates nearly 1900 000 acres of what was formerly wasteland and the Lower Bari Duab Canal when the coloniation of me is completed will add 1200 000 acres to this total Large areas in the hills and elsewhere which are transitied to cultivation are preserved as are unsuited to cultivation are preserved as forest land the total extent of which is about 8 700 square miles. Of the crops grown wheat is the most important and the development of hrugation has hed to a great expansion of the wheat area which now occupies in an uver age year over 8; millions of a res The aver age annual outturn of wheat is 3 000 000 tens age annual outcurs of wheat is 3 000 000 tools wanted at present prices at approximately 120 000 000 Vext in importance to wheat is gram, the average annual produce of which is a million ton, valued at 25 000 000 Other is a milken ton, valued at 55 000 000. Other important staples are barles not militar maize, oliseeds (rape torns and sesamum) cotton and sugarcane focton is grown generally throughout the province but the ravages of bolt-worm have afterted the populative of the crop. The cotton grown is of the short stapled variety known as Bengals. The country being prepondenantly agricultural a considerable proportion of the wealth of the people lies in its live stock. The latest cattle census gives the following figures—cattle, nearly 8 000 000 beach huffside, about 850 000. remains gives the indowing inguities—cattle, mainly 8 000 000 head buffalor, about 550 000 bovins young stock 3,600 000; sheep 4 500 000 greats, 4 250 000 Large profits are derived from the eattle and dairy trades and wool is a staple product in the south west in Kulu and Kangra and throughout the plains gene rally The production of hides and skins is also an important industry

# Industries.

The mineral wealth of the Punjab is small, rook salt, ealtpetre and limestone for road building being the most important products. There are some small coal miles in the Jinium district, with an output of about 50 009 tons a year, and gold-washing is carried on in most or more Assistant Commissioners (Cover

borse-dealing, labour and trade. A small of the rivers, not without remunerative results. Thetan element is found in the Himalayan Iron and copper ores are plentiful but diff-Iron and copper ores are plentiful but diffi-culties of carriage and the absence of fuel have duties of carriage and the absence of their have hitherto prevented smelting on a large scar-The Punjub is not a large manufacturing country, the total number of factories being only 224 th majority of which are devoted to cofton ginning of aning and preading Cotton weaving as a domestic industry is carried on by means of hand looms in nearly every vilage. The Salvation Army has shown considerable enterprise in improving the hand weaving industry. Blankets and woollen rugs are also produced in considerable quantities and the carpets of Amritaar are famous. Silk weaving is also carried on and the workers in gold, saiver brass, copper and earthernware are fairly numerous and hory carving is carried on at Amiltear and Patials. The trade of the prowhere is steadily expanding the total internal trade being valued at 651 crores of rupees. The external trade with Afghanistan, Ladakh and Tibet is valued at 34 lakhs

Administration.
The administrative functions of Government are performed by a Lieutenant-Governor appointed by the Governor General with the approval of the Crown The Lieutenant-Governor in practice is always a member of the Indian Civil Service though military term burs of the Punjab Commission are eligible for the position. The Punjab Commission the body which is responsible for the Civil administration of the province is recruited from the Indian Civil Service and the Province. call Civil Strike Up to the date of the separation of the North West Prontier Province from the Punjab one fourth of the cadre was drawn from the Julian Army. The business of Government is carried on through the usual Secretariat which consists of three Secretaries Secretariat which consists of three Secretaries of kinatical (1) Cited (4), Hevanue and (3) Financial Secretaries and three Under Secretaries There is also at present an Additional Secretary. In the Public Works Department there are also three Secretaries (Chief Engineers) one in the Buildings and Russis Branch and two in the Irrigation Branch. The heads of the Police and Educational Departments are also Under Secretaries to Covernment fine Government spends the winter in Lahore and the summer (from the middle of May to the middle of Octavious Periods and That Touts. the middle of October) in Simls The Houte mant Governor has no Frecutive Council but is assisted in legislative budgess by a Legis lative Council of 24 members, of whom eight-are elected and 16 nominated by the Lieute-nant Governor Of the nominated members, not more than ten may be officials in addition there may be two nominated expert members Under the Lieutenant-Governor the province is administered by five Commissioners (for Ambala Juliundur Lahore Rawalpindi and Multan) who exercise general control over the Deputy Commissioners—28 in number—each of whom is in charge of a district. A district on an average contains four tahely, each considering of about 800 villages. The Deputy Commissioner is nearly a Commissioner in sensity a Commissioner in sensity a Commissioner in the containts of the commissioner in the commissioner commissioner is usually a Covenanted Civilian or military member of the Punjab Commis-sion although five Deputy Commissionerships are listed for Provincial Civil Servanta. The Deputy Commissioner has under him one

anted Civilians) and one or more Extra Azaistantial Commissioners (Provincial Civilians) In lin value. The assistants to Deputy Comsone cases, one or more tabible form a sub-division under the charge of a sub-division and the control of a sub-division of the control of a sub-division of the control of a sub-division of the control of is inder a Lamourear or negument and in most district the villages are grouped into zalla, each under a zalldar. The lambarders and zalldars are village officers and not Gov ernment servants. The district Land Records and Excise staff though organised for special departmental purposes, is available for general administrative work. The Native States of the province are arranged for the purposes of supervision into five groups each under the charge of a Political Agent Except in the case of the Sikh Phulkian States (Patiala Jhind and Nabha) and the Bahawali ur Ag ney the Political Agent is either the neighbouring Commissioner or Deputy Commissioner The principal heads of Department in the province are the two Financial Commissioners (who are the highest Court of Revenue jurisdiction and heads of the departments of Land and Separate Revenue and of Agriculture and the Court of Wards) the three (hief Engineers the Inspector General of Police the Direct the Inspector General of Police the Direct for of Public Instruction the Inspector General of Prisons, the Inspector General of Prisons, the Inspector General of Phil Rospitals, the Sanitary Commissioner the Conservator of Forests, the Director of Agriculture and Industries, the Inspector General of Registration and the Legal Remembrancer The Accountant-General the Postmaster General the Director of Telegraph Engineering and the Agent North Western Railway represent Imperial Departments under the Government of India.

#### Justice

The administration of justic is entrusted to a Chief Court which is the final appellate authority in civil and criminal cases and has powers of original criminal jurisdiction in cases. powers of original criminal introduction in covering where European British subjects are charged with serious offences and original civil juriadiction in special cases. The Court sits at Labore and is composed of a Chi f Judge and four puisne judges (either ( willans or barris ters) a sixth additional judge whose appoint ment is sa ctioned for two years and a s venth and eighth additional judge whose appointment and eighth additional judge whose appointment is sanctioned for one year. There is a strongly supported movement in the provice in favour of raising the Court to the statu of a High Court, but the 8 cream of Nat recently refused to sanction the proposal Subordinate to the Chif Court are the District and Sessions Judges (22 in number) each of whom exercises civil and criminal instabilities in a civil and sessions division. jurisdiction in a civil and sessions division comprising one or more districts. They hear must of the first appeals in tivil sults and try sessious cases and hear criminal appeals from the district and first class magis trates One or two divisions have an additional

All the assistants of the Deputy Commissioner as well as the District and Subordinate Judges but not the Munsils, are invested with magin the powers Tabbilders usually exercise the powers of a second class magistrate and halb Iabsilders those of the third class, and considerable assistance is obtained from Honotary Magistrates who sit either singly or as a hench In districts in which the Frontier Crimes Regulation is in force the Deputy Com-missioner on the finding of a Council of Elders ollymone of the fluding of a Counce of Sidery (Jirga) may pass sentence up to four years imprisonment. In all cases capital sentences require the confirmation of the Chief Court Special Revenue Courts to decide all suits regarding tenant right rents and cognate matters in which civil courts have no jurisdic tion have been established under the Punjab Tenancy Act The Figure Commissioners are the final court of appeal in revenue cases

### Local Government.

Local control over certain branches of the administration is secured by the constitution of district boards exercising authority over a district and of municipalities exercising authority over a city or fown A few districts have local hoards which exercise authority over a tabal. These bodies are composed of members of their nominated by Government or elected by the people and they are empower ed to spend the funds at their disposal on schools and dispensaries vaccination sanita tion roads and rest houses and general improvetion roads and rest houses and general improve-ments. The funds of district hoards are de-rived mainly from a cess on the land revenue of the district supplemented by grants from Provincial Funds and those of municipal-ties from cetrol local taxation and Govern ment grants in the smaller towns which are known as notified areas a simpler form of government than the municipal sys-tem by in forces. When the decretive principals term is in force. Where the elective principle in force a regards both district boards and municipalities, the public shows very little interest in the elections except in a few cases where sectarian feeling runs high

Under the present system of decentralisa-tion in finance the Imperial Government dele-gates to the Punjab Government the content of expunditure on the ordinary administra-tive services together with the whole or a de-tain proportion of certain heads of revenue sufficient to meet those charges. Of the va-rious heads of revenue post office telegraphs, railways, optum and sait are entirely Impe-rial Land revenue stamps, croise, hoome-tax and many irrelation works are divided ludge and in many districts a Submidinate Judge tax and major irrigation works are divided exercising unlimited civil jurisdiction, is applicable to saist the District Judge but the ments in the Imperial and Provincial Covernations of civil suits are tried in the first Minor irrigation works and some minor beads instance by Munsh's whose jurisdiction is are divided in varying proportions, while the

### Public Works.

As was stated in the section on Administration the Public Works Department is divided into two branches one for Buildings and Rosds and the other for Irrigation In the former branch, under the Chief Pogineer the province is the kield into three circles under the province in the kield into three circles under the province in the kield into three circles under the province in the kield into three circles under the province in the kield into three circles under the province in the kield into three circles under the province in the kield into three circles under the province in the kield into three circles under the circles and the kield into the circles are seen as a second circles are second circles are s superintending Engineers and 11 divisions under Executive Engineers, while the King Februard Memorial at Lahore also constitutes a special division. The primary object of this branch is the construction and maintenance of Imperial and Provincial works. but it also assists municipalities and district boards. The Irrigation branch is under two bus it and the largestion branch is under two chief Engineers, one of whom is also Chief Engineer of Irrigation Works to the North West. Frontier Province Under them are nine Superintending Engineers in charge of circles and Ja Krecutive Engineers in charge of circles and Ja Krecutive Engineers in charge of the Superintending Engineers in charge of the Superintending the of divisions. In addition to the work of con struction and maintenance Irrigation Officers are responsible for the assessment of water rates levable on irrigated areas and in several districts where the land revenue demand is assessed on the fluctuating principle for the formulation of this demand on irrigated crops

# irrigation.

The canal system of the Punjab is admit tedly one of the greatest achievements of Bri tich rule to India Not including the enor mous Triple Cansl project now in process of correlation the total triplated area in British competent and Native States amounts to 8,269 833 acres. The Beas is the only one of the great rivers of the province from which no cannal takes off. The Indus provides supplies for two large series of immediation cannals. one on either bank Taking off from the Jhelum is the Lower Jhelum perennis canal, with 150 miles of main channel and 1,000 miles of distributaries and lower down the river is a large series of inundation canals The Lower a large series of foundation canals. The Lower Chenab perennial canal takes of from the Chenab and comprises 427 miles of main channel and branches and 2.278 miles of branches, while below the junction of the Chenab and Ravi rivers is g series of inumisation canals on both banks. The Ravi provides supplies for the Upper Bari Duab Canal, which has 370 miles of main line and branches and 1571 miles of distributaries. Some amail inundation canals and the Sidhani swaters with

vevenue from forests, registration courts of state. The Western Jumas Canal, which takes off from the right bank of the Jumas, vincial as well as the income of district boards and manicipalities. The Budget for 1915-16 shows a total revenue (including opening balance) of \$Bs. \$441-62,000 and a total expenditure of \$Bs. \$449-39,000 its vincial as closing balance of \$Bs. \$49-39,000. tion to the tracts through which the supply channels pass. The three capals included in the project are known as the Upper Jhelun, Gpper Chemab and Lower Bari Doah Canals Of these the Upper Chemab was opened in April 1912 and the Lower Bari Doab it April 191 and the Upper Jhelun was opened in Chemab was opened which was opened in Chemab was opened in Chemab was opened in Chemab was opened which was opened w 1011 and the Upper Jacum was opened in Dreember. The most interesting feature of this great work is the level crossing at 8 died 40 miles from Labore where the Upper Chenab canal supply is passed across the Ravi Into the Lower Barl Doeb Canal The revised estimate of the cost of the whole scheme la £61 milliona

# Palice.

The Police force is divided into District and Rallway Police The combined force is under the control of the Inspector-General who is the control of the Inspector-General who is a member of the gazetted force and has under him three Deputy Inspector-Generals, for the Eastern (Ambala) Central (Lahore) and Western (Rawslipind) Ranges respectively and a fourth Deputy Inspector-General in charge of Rallway Police Criminal Investigation the Police Training School and Finger Print Bureau at Phillaur The Rallway Police are divided into two districts Northern and Southern each under a Superintendent The District Police are controlled by Super intendents each of whom is in charge of a district and has under him one or more Assisticts. trict and has under him one or more Assist ant Superintendents. The district is divided into circles under charge of Inspectors, and into circles under energy of Inspectors, angain into thanas in charge of a Sub-Inspector. The staff of a thana consists on an average of one gat-Inspector two head constables and in constables. A service of Previncial Police officers has also been established consisting. Officers 1328 2350 Deen established counseling of 18 Deputy Superintendents, who are employed as assistants to the Superintendents. The total police force of the province exclusive of gazetted officers consists of 1075 officers and about 20 000 men practically half of whom and acoust 20 year ment practically unit of whom are armed with revolvers and bored out rifes. The village police or chanklears are under the control of the Deputy Commissioner of each district not of the Police Superintendent. The cost of the Police Force is 68; lakks.

### Education

Although the Punjab is usually considered rather a backward province, education has made great strides especially in the last ten miles of distributaries Some amail inundation canale and the Sidian system with a genral covernment maintain the Government maintain the Government maintain the Government from the Stribind Canal, which has a main line and before a Lahore, the Central Training Change of 520 miles and distributaries amount-plant of 528 miles and distributaries amount-plant there are two systems of inundation canals therefore the Grey Suite; respectively in addition to the Grey Suite; respectively in addition to the Grey Canale maintained on the cooperative systems at the Ferozepore district and a vast confer of inundation canale in Bahawaipur leges for males and 1 for formion; 11) High Schools for boys and 16 for girls 241 middle schools for boys and 48 for girls 4 518 Pri mary 8chools for boys and 798 for girls 54 schools for special instruction for boys and 12 for girls. The number of pupils attending schools of all classes is 358 182 boys and 45 631 girls. The nine arts colleges are—The flowernment. Oriental, Formar Christian, girla. The nine arts colleges are —The fovernment, Oriental, Forman Christian, Daysnand, Jalamis and Daysi Singh Colleges at Lahore, Khalsa Arurtsar Murray Sisch Gordon Ravalphidi Professional education is represented by the Law Medical and Veterinary Colleges at Lahore the Agri cultural College at Lyallpur the Cicrical and Commercial School at Ampiteer the Engl neering School at Rasul the Mayo School of Art and the Rallway Technical School both at Labore There are eight Industrial Schools at Arts December 1988 and May Ment May 1988 and 1 at Labore There are eight Industrial Schools in the Province maintained by Munkhall-ties or District Boards and others maintained by Missionary bodies, the Arya Samaj etc which receive grants-in aid. The education of the domiculed community i provided for by a number of secondary boarding schools in hill stations and of primary schools in the province is provided for by the Altchison Chiefs College for both and the College for both and the College for both and the College for the province is provided for by the Altchison Chiefs College for the province is provided for by the Altchison Chiefs College for the province is provided for by the Altchison Chiefs College for the province is provided for by the Altchison Chiefs College for the province is provided for by the Altchison Chiefs College for the province is provided for by the Altchison Chiefs College for the province is provided for by the Altchison Chief College for the province is provided for by the Altchison Chief College for the province is provided for the for boys and the Queen Mary a College for girls, both at Lahore

The Education Department is administered by the Director of Public Instruction who has under him an Inspector of Schools in each has under him an inspector of Schools in cancer orbit division with two or more assistants, a district Inspector with assistants, in each district two Inspectors of girls schools and an Inspector of European schools. Higher education is controlled by the Punjab Uni-versity (incorporated in 1882) which has the versity (incorporated in 1892) which has the Leutenant-Governor as ex-offices Chancellor a Vice-Chancellor appointed by Government and a Senate. In addition to the nine arts colleges already mentioned and the Law and Medical Colleges at Labore St Stephens College Delhi, and the Hindu College Delhi and aix other colleges in Kashmir Patials. Bahawalpur Kapurthala and the Nowh West Frontier Province are affiliated to the Punjab University

# Medical.

The Medical Department is controlled by sindar Singh Maji the Inspector-General of Civil Hospitals (a member of the Indian Medical Bervice) who also supervises the departments of the Chief A H Dinth, CVO Plague Medical Officer and the Chief Malaria (A Derron (LE, Medical Officer Sanitation is controlled by P J Faran the Sanitary Commissioner (also a member of the Indian Medical Service) who has under him two Deputy Sanitary Commissioners and is advised by the Sanitary Board, with the Sa nitary Engineer as Technical Advisor Medical work in the districts is in charge of the Civil Surgeons of whom fourteen are members of the Indian Medical Service and others Milithe Indian menical service and centers min-tary Assistant Surgeons and uncovernanted Medical Officers, chiefly Civil Assistant Sur-geoms. The Mayo Hospital at Labore as-special railway canal and police hospitals are maintained by Government, but the ordiare manufactured by droverminent, one the ordinary hospitals and dispensarios in the district are maintained by municipal or district funds. Certain private lastitutions such as the Walter Hospital at Simis and many mission dispensaries receive grants-in-aid. The Gajian Singh of Ludhiana,

Mayo Hospital at Labore is being greatly ex-tended and improved as a memorial to King Edward VII. The total number of patients treated at all hospitals and dispensaries in the year is over four and a half millions in year is over four and a man minious in eduding nearly 75 000 in patients. A temporary department to combat plague has been organia ed under the Chief Meddeal Plague Officer In the districts the Civil Surgeons are generally in charge of the operations against plague, but additional officers are employed from time to time There is only one lunatic asylum in the Province at Lahore, but there are ten leper asylums. The Pasteur Institute at Kassuli asymms The Fasteur Institute at Ressult performs the functions of a provincial labors tory for the Punjab vaccination is supervised by the Sanitary Commissioner but is more particularly the concern of the Deputy Sanitary Commissioner who has under him a special staff Civil Surgeons also have a local staff of vaccinators under them

### Administration.

Lieutenant Covernor Sir W + O Dwyle K 0 SI Awnmed charge 19:

# PERSONAL STAFF Provid Secretary Light (of E. C. Bayley

CLI IA. Honorary Lakes de-Canapa Lieut Col Wright Hony (upt (w)pala, Risaldar Major Muhamud Hayat Khan Subsdar Bahadur Gulab Singh

# THEISLATIVE COUNCIL.

Prendent The Lieutenant Governor Var Liendent A H Dinck ( vo.

# MUNICIPAL

#### Nominated

Navab Sir Bahram Lihan KCIE. J C Godky car Sir U W Fenton Ecel 118 Sundar Singh Malithia, Sardar Bahadur tol H Hendley ND INS P J Fagan 8 W Gracev Raizeda Bhagat Ram.

Khwajah Yusuf Shah Khan Bahadur Nawab Ebrahim all Khan of Kunipura.

# Col R 8 Maclagan CB Cat Elected

J Currle

J P Thompson

Lala Kashi Ram of Ferompore

Bakhahi Sohan Lai of Lahore	Conscrusion of Forests, R. McIntosh	
Kalik Muhammad Amin Khan of Shamsabad.	Inspector General of Civil Hospitals O	otone
Str F C Chatarji, C.I.B	Harold Hendley M D LM.S.	
Secretary 8 W Gracey	Sanutary Commissioner Lt. Col. 8	vilney
SHORETARIAT	Browning Smith DPH IMB	
	Inspector-General of Prisons LtCol G	₽ ¥
Chasf Secretary C A Barron CIE 109 Repeate Secretary J P Thompson 108	Breide.	
Manager Company O. M. Impondon	Accountant General W Alder 108	
Recustrar W Burr Bryan 1.80	Postmanter-General G R Clark ICS	
••••••	Regultrar of Co-Operative Credit So	cier.
PUBLIC WORKS DEPARTMENT	and Joint Stock Companies A. Langi	0 <b>7</b>
Irrigation Branch	LIEUTERANT GOVERNOES OF THE PURI	13
New Perdatable C. IX JOHN WARKET F. F. P. P. COSP I.	Sir John Lawrence Bart., a c B	1859
A 1 0 0	Sir Robert Montgomery R.CB	1859
	Donald Friell McLeod CB	186
socretary Col P > Maclagan + B + >1	Major-General Sir Henry Durand	1870
B. R.	E C S 1 1 1 8 GH G at TOME January 18/1	
D D	R H Davies C 9 I	1871
	B. E Egerton 0.81	18"7
Sir M W Fenton ECS1	Sir Charles U Altchison KCF1	1887
Director of Astroulluse and Industries (* 4.)	James Broadwood Lyall	1887
B H Townsend B.A. It S	Sir Dennis Fitzpatrick K C 5.1	1892
Disselve of Lond Resords InstruMot Cent of .	William Mackworth Loung C 81	1897
regular ation and he guide, some at 1 tends	Sir C M Rivaz, K C 8 1	1902
	Sir D C J Ibbetson K.C.S. resigned	1907
	22nd January 1908	1001
MISCELLANEOUS APPOINTMENTS	T G Walker C SI (off)	1907
Director of Public Instruction JC Godley CSIL	Sir Louis W Dane K Cl E Cel	1908
mapetor destrator lande that the least to	James McCrone Doule (offa)	1911
		1911

# Burma.

on the North-West and Chins on the North East, and between the Bay of Bengal on the West and South West and Slam on the South resp and could west and sign on the south East. Its area, including the district of Putso constituted in February 1914, is approximately 270 000 square miles of which 172 000 are under direct British Administration 31 000 belong to Independent and 67 000 to semi independent Native States The main geographical feature of the country is the series of rivers and bills rouning fan like from North to South with fertile valleys in between widening and flattening out as they approach the Delta On the West are the high hills of the Chin country Manipur and Assam and on the East the uplands Manipurana states on the South are the hill ranges of Siam. The country is divided East and West by the Dry Zone which has most of the features of the highlands of India South and North of this are the Wet Zones with a rich tro pical vegetation. The climate of the Dry Zonc resembles that of Behar, the temperature in May rising to 116 the climate of the Wut Zones is moist but fairly equable. The mag Zones is moist but fairly equable The mag nificent rivers the number of hilly ranges (yo-

# The People

The total population of Burma at the census of 1911 was 12 115 217 Of this total 7 642 204 are Burmans 996 420 Shans 919 641 Karons 239 953 Kachius 306 486 Ching 344 123 Ara kanese and 320 629 Talainge There is also a large allen population of 108 977 Chinese and about 600 606 Indians, while the European population le 24 355

The Burmans who form the bulk of the popu lation belong to the Tibeto Chinese family They language to the Tibeto Chinese family They are essentially an agricultural people 80 per language to the Theolo Uninese taming. They are essentially an apricultural people 50 per cent of the agriculture of the country being in their hands. Their chief coner is with their fields and their pagedas. As long as they are left in peaceful enforment of these they are not paramity indifferent as to the flovernment of the country in appearance the Burman is usually somewhat short and thick-set with Mongolian features. His dress is most distinctive and exceedingly comfortable. It con sists of a silk handkerchief bound round his sasts or a sink mandscrele! bound round in forehead, a loose lacket on his body and a long skirt or loongy! tied round his wait, reaching to his ankles. The Burman women perhaps the most pleasing type of temininty in the East, lead a free and open life playing a large part in the household (conomy and in pety trading. Their dress is somewhat similar to the man a minus the silk kerchief on the head, and

The Province of Burms lies between Assam | these rivers, especially the Irrawaddy are full of sailing and steam craft. In the Delta, the net work of waterways is indeed practically the only means of communication. The Irrawaddy Flotilla Company with a fin fleet of mail cargo and ferry boats gives the Irrawaddy and the Delta rivers and creeks a splendid river SETTICE.

The Burma Railways Company has a length of 1 600 miles open line. The principal lines are from Rangoon to Mandalay from Sagaing to Mylikyina the most northern point in the system the Rangoon Prome line and the Pegu Martaban line which rerves Moulmoin on the further bank of the Salween River An important branch line runs from Thazl on the main line across the Melktila and Myingyan Districts to Myingyan Town on the Irrawaddy Another branch goes from Sagaing on the Irra waddy to Alon on the Chindwin A small branch on the Sagains Myitky ha line runs from Asha to Katha on the Irrawaddy. A branch on the right bank of the Irrawaddy runs from Bs as in to kyangin A ferry at H-ngada connects the branch with another branch run ning from Letpadan on the Prome line to the lett hold of the Lenguidy in Thermondy. mas) and the abundance of foreste all combine left bank of the Irrawaddv at Tharawaw An to make the scenery of Burma exceedingly important line the Southern Shan States Rail varied and picturesque way is open as for as Aunghan 7 miles beyond
Kalaw the futur hill station of the province
and 70 mil s from Thazi, the junction with the Rangoon Mandalay main line The new line willend thirty miles further East at Yawnghwe the principal town in the rich valley of the Nam Pflu

> The length of metalled roads is 1976 miles and of unmitalled roads 1116 The num ber of ruade is for a rich province like Burma quite inadequate One of the most urgent needs of the Province is a very generous ex tension of roads both metalled and unmetalled

## Industry

Annialture is the chief industry of the pro vince and supports nearly three fourths of the population. The next total cropped area in 1914 15 was 14 239 300 acr s of which more than a million acros was irrigated land crop is paddy of which 2 348 400 tons were exported in spite of the closing of foreign markets on account of the war. This totals higher than in any previous year except 1913-14 but the in any previous was execute 1933-14 but the price realized was less than in any year aince 1998 10 being four hundred lakes of rupees tower than the value of the previous year's export Rice forms 63 per cent of the total exports. Over 8 000 tons of ortion (about 45 000 beles) were produced, 88 000 tons of groundnuts, and 8 000 tons of sesamum. Hales (50 000 tons) and millet (60 000 tons) are the other ohief crops

being tied in front A well dressed and well ground Burmese isdy would for grace and nestness challeng comparison with any woman interest challeng comparison with any woman in the world.

The Irrawaddy and to a less extent the Irrawaddy and Irrawaddy Irr

A third important branch of industry consists of working mines and quarries in which Burma is particularly rich. The petroleum selds are in the Dry Zone, chief on the State of the Burma selds are in the Dry Zone, chief or training and yellow there the principal extractor is the Burma District where the principal extractor is the Burma Oli these of the most exquisite much to those of the most exquisite much to those of the province in 1918 was nearly 278 million gallons in 1914 nearly 255 million gallons in 1914 nearly 255 million gallons in the Ruby Mines District the Ruby Mines District the Ruby Mines District the Ruby Mines District the Ruby Allers and District the Ruby Mines District the Ruby Mines District the Ruby State of the most exquisite much to those of the most exquisite much to the total course of the most exquisite much to the second the total course of the most exquisite much to the second the total course of the most exquisite much to the second the much to the second the most exquisite much to the second the second the second the second the second that the second the second the second the second that the second the second the second the second that the second the second the second that the second the se the Ruby Mines District the Burms Ruby three Company at Mogok produced in 1914 stones valued at £44 000 3 704 ounces of gold seese won by the Burnas Gold Dredging Company from the bed of the Irrawaddy River morth of Mylthying.

The Burms Mines Company at Bawdwin in The Burma Mines Company at Bawdwn in the Northern Shan States produced 24,001 tons of lead stag valued at Es 6 lakhs and 8,769 tons of sliver lead ore valued at 35 lakhs 19,462 tons of fron one were mined in Mandalay district eard 8.58 tong of vine one valued at Es, 16 lakhs in the Southern Shan States The Tawnsaw Mines of the Writkylna Blattick produced 498 tons of jade valued at Rs. 2 lakhs

Tungsten ores chiefly wolfram are mined in Tavoy Morgui and the Southern Shan States Unomicial returns give the outturn in the year 1013 as 2,700 tons or nearly twice as much as the United States produces. In five years Burma has risen to the first place amongst countries producing these valuable ores with the United States and Portugal bracketed second

The rubber industry is still in its infancy only 10 plantations employing more than 20 persons The plantations are situated in the Margui Ambert, Hantbawaddy and Toungoo Districts At the Census of 1911 4,047 people were returned as engaged in the production of rubber The total quantity exported in 1914 15 was 6810 cents The prospect of rubber in this Province is very very but the extinuity of the content of proceeding, but the estimates of the output in the immediate future have been framed in the sanguine apirit of the company promoter and are not likely to be realized

# Manufactures.

Then an 424 factories 240 of which are capaced in milling fire and 89 are samults. The remainder are chiefly cotton ginning mills oil milks for the extraction of oil from ground out must for any extraction or the troop mains and oil refineries connected with the periode an industry. The average daily number of operatives rose from 50 723 in 1912-13 to 

As is the case in other parts of the Indian Imagine, the imported and factory made article in rigidity conting the home made and indigenous. But at Amerapara is the Mandalay District a revival has taken place of hand silk weaving Imagine wood-carving is still factors and rancy at four in Lower Burnas. Commissioners arising in an arrival in the siland of whose in Upper Burnas and the Commissioners arising in many in the siland of whose in Upper Burnas and the Commissioners arising in an arrival in the siland of the Arskan Division are confined Sentious Standard y parassols are well known and much language. But perimps the most have been relieved of all judicial work.

dustries is the lacquer work of Pagan with its fisheate patterns in black green and yellow threed on to a ground work of red lacquer over bamboo Lacquered articles ranging from those of the most exquisite finish to those of a coarse description are produced at Pagua on the Irrawaddy and are sold throughout the

The total value of the foreign trade in 1914-15 was only 1.951 laking a decline of 30 per cent.
compared with the previous year imports
amounted to Ha 1.199 lakins on 10 per cent
less than in the previous year Rangoon the
only port with radiities for distribution of goods took 86 8 per cent of the foreign trade and 83 2 per cent of the Indian trade. The net The net os 2 per out an indead dass. The first customs duty was Rs 136 lakin or 52 per cent ics than in 1913-14. The decline in trade was due loss to lace to lace to de mand than to shortage of shipping owing to the war. Trade with India increased by 5 per cent to Rs. 2,562 lakbs

The most important item of merchandise imported into Rangoon is manufactures of cotton which account for 25 per cent of the total import trade. These imports are valued at Ra. 200 iasks. The United Kingdom took 61 per cent, of the total import trade in 1934 15

#### Administration.

In 1897 the Province which had formerly been administered by a Chief Commissioner was raised to a Lieutenant Governorship The head of the Province is therefore now the Lieutenant-Governor He has a Council of seventeen change-voverior the mass council of sevences members, one of whom is elected by the Burms. Chamber of conus-res, one by the Basgoon Trader Association and the remaining fifteen are naulmated by the Levitement Governor you more than at ven members may be official. the rest must be non officials and at least four must be selected from the Burness population one from the Indian and one from the Chinese community

Burma is divided administratively into Upper Burma (including the Shan States and Chin Hills) and Lower Burma. The Shan States are administrated by the Chiefs of the States, subject to the supervision of the States, subject to the supervision of the States, subject to the supervision and Southern Shan States, and to the supervision of the Commissioners of the adjoining Divisions in the case of the other States. The Civil Criminal and Revenue administration is vested in the Chief of the State, subject to the restrictions contained in the sanad. law administered is the customary law of the

Burma

Under the Commissioners are 29 Deputy Under the Commissioners are 39 Deputy Commissioners including the Police officers in charge of the Hill Districts of Arakan and the Salwest District, who exercise the powers of Deputy Commissioner Deputy Commis-sioners are also District Magistrates, Collec-tors and Registrare, except in Rangoom where there is both a District Magistrate and a Collector Subordinate to the Deputy Commis-sioner are Assistant Commissioners Extra Assistant Commissioners and township officers assistant Commissioners and township officers called Myooks. In the villages are the village headmen, thugyls assisted in Lower Rurner by the Scelngaungs (rural policemen in charge of ten house). The revenue administration is controlled by a Financial Commissioner acaised by two Secretaries. Subordinate Departments are in pharge of a Commissioner of Agriculture a Suporintendent of the Civil Veterinary Department and a Recister of the Civil Commissioner of Agriculture and Commissioner of Agriculture and Commissioner of Agriculture and Commissioner of Agriculture and Commissioner of the Civil Commissioner of Agriculture and Commissioner of the Civil Commissioner of Commissioner of Commissioner of Commissioner of Commissioner of Civil Commissioner of Commissioner of Commissioner of Commissioner of Commissioner of Commissioner of Civil Commissioner of Commissioner of Commissioner of Commissioner of Commissioner of Civil Commissioner of Commissioner Veterinary Department and a Registrar of Co-operative Credit Societics

### Justice.

The administration of Civil and Criminal Justice is under the control of the Chief Court of Lower Burma with six judges (one temporary) and of the Judicial Commissioner Upper Burms with an Assistant Judicial Commissioner Three are seven Divisional and eight District Judges There are also separate Provincial and Subordin ate Judicial Bervices Divisional Judges are also Seasions Judges The Chief Court at Bangoon is the highest (ivil Court of appeal and the highest court of (riminal appeal and revision the highest court of (riminal appealand rovision in Lower Burma. It is also the High Court for the whole of Burma including the Shan States) where European British subjects are concerned. It is the principal Civil and Criminal Court of original jurisdiction for Hangson Town and hears appeals from all sentences of Courts and magnitustes exercising jurisdiction in Rangson Town

In Oriminal and Civil matters the Budicial Commissioner of Upper Burms exercises the power of a High Court for appeal, reference and evision except in respect of original cases in which European British subjects are concerned

All village hondmen have limited Magisterial powers and a considerable number are also invested with civil jurisdiction to a limited

## Municipalities.

The Rangoon Municipality is the most im The Hangoon aumicipanty is the most important with an income of Rs 42 lakins and an expenditure of Rs 44 45 lakins. The Chairman is a member of the Indian Civil Review of Deputy Commissioners rank. The members of the Commissioners are elected by wards.

There are 44 whor Municipalities, of which the most important are those at Mandalay and Moulmein. The average incidence of Municipal taxation is Es 3-5 3.

#### Local Funda

marketa ferries, alaughter houses, etc The total receipts amount to 3299 lakhs. In Upper Burma there are District Funds They are derived from market, ferry and license fees and occasional grants from Provincial revenues The total revenue was over 10 takhs

There are 7 Cantonment Funds 18 Town Funds and excluding the Hangoon Port Trust 6 Port Funds

# Finance.

As in the case of all other Provinces the finances of Burms are based on a Provincial Settlement In the case of Burms it came hato force on the 1st April 1907 and the Gov ernment of India retains in the first place the entire profits of the commercial departthe entire profits of the commercial departments such as Ports and Telegraphs and in the second place all the revenue where the locale is no guide to its true incidence such as the net receipts from Customs Salt and Opium, But as the lucome from these sources is in adequate for the purpose of meeting the cost of the Imperial Services spe. ial arrangements are made as with other Provinces for the divistop of the remaining sources of revenue between Imperial and Provincial Funds

In 1910-1911 as a result of the Report of the Decentralisation Committee modifications were introduced into the Settlement. Briefly the Local Government retains 5-8ths of the net Land Revenue instead of a half and the whole of the net Forest revenue The following figures show the gross revenue and expenditure for 1918-11

	Rec	es pla	Eŋ	end	dure
		Rs	_	Rs	
Imperial	442 €	7 Lakhe	89	60	lakhs
Provincial	n61 4	(n	J52	81	
Local Funds	46 8	10	39	99	
Municipalities	104 1	0	111	69	
Other Funds	144 7	79	129	82	r

The Imperial Government makes a fixed annual assignment to the Burms Government sanual assignment to the Burma Government Under the retilement of 1911 this assignment was fixed at Ra 12 90 takhs. Including this sum contributions from Imperial Funds in the year 1913-14 amounted to Re 53 54 takhs, as compared with Ra 98 29 in the previous year From 1914-15 onwards the Government of India had allotted an additional recurring grant of Rs 15 laking to the province and had further guaranteed to the province a minimum appropriate of revenue advancing by Rs. 8 lakes annually until 1829 34. No payments under this guarantee will be made this after the war but it will have retrospective effect from the Year 1911 12

### Public Works.

This Department is administered by two Chief Engineers who are also Recretaries to Government in the Public Works Depart-No Local Boards of District Boards exist small. There are eight Superintending Regimeers in Burma. In their place in Lower Burma (including one for Irrigation and a Sanitary there are District Dess Funds, derived mostly Regimeer), 53 Exemitive Regimeers and Astrona 10 per sent, ones on collections of our sixtant Engineers. A Compiling Architect many local revenue and from solicotions from its attached to Head Quarters

There are four Major Irrigation Works-Man dalay, Shwebo and Mon Canak and the Ye-U canal in the Shwebo District still under con struction

#### Police.

The Police Porce is divided into Civil, Mill tary and Rangoon Town Police. The first The first two are under the control of the inspector deneral of Police the latter is under the orders of the Commissioner of Police, Rangoon, an officer of the rank of Deputy Inspector-General

There are four other Deputy Inspectors General, one each for the Eastern and Western Range one for the Rallway and Criminal In vestigation Department and one for the Military

The sanctioned strength of the Civil Police Force at the end of March 1913 was 1 486 officer and 14 316 men but the numbers fell 1 003 bot of the sanctioned struggli. The strength of the Military Police on the lat January 1914 was 15 986 officers and men The Rangoon fown Police stand at 79 officers and 1,191 men

A special feature of Burma is the Afflitary Police Its officers are deputed from the Indian Army The rank and file are recruited Indian Army The rank and file are recruited from natives of India with a few Kachins Karens and Shans. The organisation is Military the force being divided into Bakalions The object of the force is to supplement the regular troops in Burms. Their duties, apart from their Military work, is to provide escorts for specie prisoners etc and guards for Treasuries Ialia and Courts.

#### Education.

At the head is the Director of Public Instructon with an Assistant Director There are 6 Inspectors of Schools belonging to the Imperial and one belonging to the Provincial Service, and 7 Assistant Inspectors belonging to the Provincial Service The Rangoon Colto the Frontiers Service. The nameon con-legs is staided by a Print pal and nine Professor-drawn from the Imperial Service with three from the Provincial Service Outske the Education Department is the Educational Syndicate which holds certain examinations and serves as an advisory body on educational questions referred to it by Government

Burma has no University but it has two Colleges the Rangoon College and the Baptist College which are affliated to the Calcutta University Under Government there are—

An Arts College, Law School Reformatory School School of Engineering, Apprentice School High School for Europeans High School at Taunggyi for the sons of Shan Chlefs 5 Rormal Schools 15 Anglo-Vernacular High Schools, 18 Anglo Vernacular Middle Schools and 44 Vernacular Middle Schools

A remarkable feature of education in Burma is the system of elementary education evolved, generations ago, by the gentus of the people generations ago, by the genius of the people Sao Mawng Kearly every village has a monastery (hpoonsyl-tyanng) every monastery is a village school and every Burman boy has, according to his Maung Mye

religion to attend that achool, shaving his bead and for the time wearing the yellow robe. At the hopongyl kyaungs the boys are taught to read and write and an elementary and native system of arithmetic The result is that there are very lew boys in Burma who are not able to read and write and the literacy of Burman men is 412 per mille

Another feature of education in Burma is the excellent work of the American Baptist Mission which has established schools in most of the important towns in Burms, as well as a College in Rangoon

#### Madical

The control of the Medical Department is The control of the Medical Department is vested in an Inspector General of Civil Hospitals Under him are 41 Civil Surgeons There is also a Sanitary Commissioner two Deputy Sanitary Commissioners, an Inspector General of Prisons three whole time Superin tendents of Prisons a Chemical Examiner and Bacteriologist and a Superintendent of the Lunatic Asylum

A Civil Surgeon is in charge of each District, while at the summer Head Quarters of Maymon there is a special Civil Surgeon

The total number of Hospitals and Dispen sames was 270 at the end of March 1914 The Rangoon General Hospital is perhaps the finest in the East

The Pasteur Institute was opened in Rangeon in July 1915 The Director is a Scalor Member of the Indian Medical Sprice

The total number of patients treated in 1913 Was 1 614 469

# Administration

Luntenant Coternor Bir H K.C.S.H. C.L. Appointed 101 Hare our Ruthr

Private Secretary H C Garladen

Aide de Camp C J Heath

Honorary Arde-de Camp Lt Col H Des Voens CIR IA

Indian Aides de Camp Bony (apt Musaffar Khan Sardar Bahadur Subadar Major Amar Singh Rut Bahadur

> JECISLATIVE COLNCIL OF THE LIBUTENANT-HOVERNOR

> > Officials

W J keith

Lt Col. E C Townsend

H Thompson

Walter Francis Rice C 51 1 ( 8

George Cooper Stan ell.

John Guy Rutledge

Son Officials

Merwaniee Cowaniee

Lim Chin Taong

Sao Mawag CIF

Mirza Abdul Hussein, Khan Bahadur

Maning Pe	Communioner of Excuse Lt. Col. W. B. St.	OILe	
Maung Tun Myst	Chief Customs Authority Herbert Thompson		
Arthur William Binning	Accountant Ceneral L E Pritchard F Duke		
1 E Du Bern	Gordon (Offg)		
Secretariat	Chief Commissioners of Burms		
i hief Secretary W F Bice C 1			
Revenue Secretary W J Keith	LicutColonel A P Phayre c B	1802	
Socretary C. M. Webb	Colonel A Fytche C S.I	1867	
Secretary PWD G C Stawell VL	Lieut Colonel B D Ardagh	1870	
Joint Secretary P W D C H Wollaston	The Hon Ashley Eden Cal	1871	
I maneial Commissioner H Thompson	1 R Thompson (41	1875	
Sensor Recostrar A T Stuart	C U Ait hison C 4.1	1878	
	E Bernard C S 1	1880	
Miscellaneous Appointments	CHT Crosthwaite	1854	
Nettlement Commissioner and Director of Land- Records R L V Arbuthnot	Sir ( L Bernard K C S )	1886	
Ourector of Agriculture H Clayton	CH 1 (rosthwait: CS)	1887	
Consulting Architect Edgar John Pullur + R 1 11 3	4 P MacDonnell CSI (a)	1880	
Superintendent and Political Officer Southern	Alexander Mackenzie C 1	1890	
Shan States ( ( B Stirling	D M Smeaton	1892	
Superintendent and Political Officer Northern	Sir F W R Fryer KOSI	1995	
Shan States H A Thornton  Investor of Public Instruction J & Co. ration	(a) Mterwords (b) crestion) MacDonnell	Raron	
Impector General of Police Lt (o) H Des			
Voeux.	Lieutenant Governors of Burma	L-	
(hers Conservator of Euresta (GRQ 18	Sir F W R bryer R C 4 1	1897	
Inspector General of Civil Himpitals (al. VO.	Sir H S Barnes KCSL KCV0	1903	
Sundary Commissioner Lt Col C 1 Williams	SITH T White E.C.J.E	1905	
Inspector Coneral of Private 1t Co. ii I H	Sir Harvey Adamson Kt EC+! LLL	1910	
Bell	Bir Harcourt Butler & CSI GIE	1915	

from Kusunda to Pathordl in 1865 In 1894 the outturn of all the mines in the district was only 126 686 tons. In 1895 it rose to 1,831,250 tons the enormous increase being almost entirely hrom the Daris field. In the two succeeding years there was a set back, but from 1883 there was a steady rise in the outturn which first touched two million tons in 1901. In 1905 the outturn between the country was a steady rise in the outturn which first touched two million tons in 1901. In 1905 the outturn between the limit of the country was a steady rise in the outturn which are successful to the country was a steady rise in the outturn which are successful to the country was a steady rise in the outturn which are successful to the country was a steady rise in the outturn was a steady rise in the outturn which are successful to the country was a steady rise in the outturn which are successful to the outturn was a set was a set when the successful rise was a set was a set when a successful rise was a set when a successful rise was a set was a set when a successful rise was a set when a successful rise was a set was a set when a successful rise was a set when a successful rise was a set was a set when a successful rise was a set was a set when a successful rise was a set was a set when a successful rise was a set was a set when a successful rise was a set was a set when a successful rise was a set when a successful rise was a set was a set when a successful rise was a set whe couched two million tons in 1901 in 1905 the outturn had swelled to nearly three million ton and in 1905 to nearly four millions in 1907 over 5,800,000 tons were raised and in the following year no less than seven million tons. By 1914 15 the production of Indian coal had been raised to 16 464 000 tons whined at 18 484 by 00 tons whined at 18 484 by 00 this total 30 per tent was raised in the Jharta fields and 30 per continued to the per continued in the Jharta fields and 30 per continued to the per continue raised in the Jharia fields and 30 per cent from the Ranigauni coal fields of Bengal The entrance of the Bengal Nagpur Italiway in the Jharia field in 1904 and the subsequent extension of various small loops and branches besides in numerable sidings from both systems the doubling of the line from Barskar to Dhanbaid the opening of the section of the East Indian Ballway of the Grand Chord from Dhanbald to Comoh have all contributed to this rapid deve lopment. The tendency however which was manifest in 1907 and 1908 to open out new collieries has been checked. Giridin in Hazari hand is also the centre of a considerable coal hagh is also the centre of a considerable coalsemining industry containing as it does mines owned and worked by the East Indian Rail way Company. The Bokaro-Ramgarh field in the same district is likely to be of great recommic importance as soon as the rail way now under construction. It immediately adjoins the Paris Reid across the Hazaribagh berder. There is a large under elopes coal supply it is believed in the Districts or Palaman, and Hazaribagh. and Hararibagh

### Administration.

The Province is administered by a Licutement The Province is auministered by a Lineacenant Governor in Council. The Lieut, and Governor for appointed by the Crown and is a senior member of the Indian Civil Service. He is assisted by a Council of three members, two of whom are drawn from the Indian Civil Service. while the third, in practice, is an Indian Rach member takes charge of departments and in the event of any difference of opinion regarding inter-departmental references the matter is decided in Council In practice all important cases are submitted through the member con terned to the Lieutenant Governor

The unit of executive administration is the District. The District Officer is styled District Agglarate and Collector except in the Bobeduled districts where he is known as the Deputy commissioner The ordinary district jails are placed in obserce of a Superintendent usually the Civil Surgeon while the Magistrate pays periodeal visits of inspection. All District Officers are co-officio Registrate and as ex-officio Chalman men of the District Boards they have control

In 1894 important which are sent for trial at the strict was 1,331,394 be seldom presides in Court, and his share in this est entires part of the administration is practically confined uccessing to the distribution of work, the hearing of petty to the unstribution of work, the hearing of peacy appeals and the general superintendence of his subordinates. The latter combine revenue with their magisterial functions and as Deputy Collectheir magisterial functions and as respony consi-tor exercise under his control many of the powers of a Collector The police, by whose aid he carries on the criminal administration, have as their local superior a Superintendent, who in all matters, except those concerning the dis-cipline and internal economy of the force has cipline and internal economy of the force has to carry out such instructions as he receives from the District Magistrate. The Sub-divisional Officers, who are Joint Assistant and Deputy Magistrates in charge of divisions of districts, occupy to a great extent, in their own jurisdictions, the position of the District Officer except in respect of the police over whom they have only judicial and no executive control. There are 21 Districts.

> Above the District Magistrates are the Divisional Commissioners. Their duties are prin visional Commissioners. Their duties are prin-ipally those of supervision In almost all matters they exercise a general superintendence, and especially in the Revenue Department the control the Collectors proceedings. Commis-sioners are the channels of communication between the local officers and Government, alfting collating and bringing together in a compact form the information they receive. In revenue matters the Commissioner forms a Court of appeal and in this and other respects is subject to the orders of the Board of Revenue. With this exception he is in subordination to Government direct

> The Civil Secretariat consists of the Chief Secretary who is in charge of the Judicial Political Appointment and Education Departments, the Revenue Secretary the Financial and Munkipal Secretary and their three Under Secretaries

The Province of Bihar and Orissa was formed with five divisions, detached from the old pro-vince of Bengal with effect from the 1st April 1912. The old arrangements made with the Government of Bengal regarding the financial administration of the Province therefore administration of the Province therefore ceased to apply from that date. A fresh arrangement has, however been made with the approval of the Secretary of State. As the method adopted was in some measure tentative and provisional a temporary sectlement for a period of three veries only has been effected. Owing to the warlt has been found necessary to continue the provisional settlement for the present Under the terms of this settlement the Under the terms of this settlement the whole of the receipts under the heads of Provincial Bates, Forest, Registration, Courts of Law, Jalis, Police, Ports and Protage, Education, Medical have been made over sa-tirely to the local Government together with their corresponding charges. In addition to those, it receives three-fourths of the receipts over dementary education, and are charged with their corresponding charges. In addition to the execution and administration of all local their corresponding charges. In addition to public works, in a word, the District Officer is these, it receives three-fourths of the receiptable executive chief and administrator of the front stamps, assessed taxes major and subject that of country committed to him. As District Magistrate be is also local head of the followed from Government Estates, one-half of magistracy who tries all cases, except the more like receipts under all other and-heads excepting

recoveries from samindars and raiyats on account of survey and actilement in Bihar and other similar special curveys and the whole of the receipts under Scientific and other Minor Departments.

The only expanding items of revenue are Excise and Stamps. The Provincial Budget for 1914 15 shows an opening balance of B.A. 1,88 25 000 Receipts B.S. 2 97 13 000 Expanditure Rs 3 67 75 and the closing balance Rs. 4,17 8 300

### Public Works

The Public Works Department in the Province of Bihar and Orless, consents of two branches viz —(1)Road and Buildings, which also deals with Railways and Miscellaneous Public Improvement, and (2) Irrigation and Marine Each branch has a Chief Engineer who is also Secretary to the Local Government with an Engineer Officer as Under Secretary under him There is also a non professional Assistant Secretary a Consulting Architect and a Sanitary Engineer who works under the Sanitary Board The electrical work of the Province is carried out by an Electrical Inspector and a staff of subordinates.

The Roads and Buildings branch consists of two Circles under the superintendence of two Superintending Engineers who control the Public Works Divisions held by the Executive Ragineers for the execution of Imperial and Provincial works The Superintending Engineers are also the Inspectors of Works under the Local Self Government Act. in respect of all local works of the District Boards and in this capacity are the professional advisers of the Chairman and of the Divisional Commissioners who control the operation of such Boards. They also supervise all works carried out by District Boards.

The Irtigation branch is composed of three Circles, each of which is held by a Superintend tog Engineer. In the Irrigation Circles the Executive Engineers carry out the works of the Eachs and Buildings Branch within the limits of their divisions in addition to their irrigation duties. The Superintending Engineers of Irrigation Circles also act as Inspectors of Works in the districts in their Circles. In the Sone and Orlssa Circles there are two Revenue Divisions under Deputy Collectors who deal with the assessment and collection of water rates on the Orless and Sone Canals under the control of the Superintending Engineers.

#### Justice.

The administration of justice is at present entrusted to the High Court sitting in calcutation shortly jurisdiction will be transferred to a High Court at Pains the building for which is now in cause of erection. In the administration of civil justice below the High Court are the District Judges as Courts of Appeal, the Subordinate Judges and the Munich, The jurisdiction of a District Judge or Salicordinate Judge extends to all original suits assemble by the Civil Courts. It does not between the tudes the powers of a Small Came-Court, unless these be specially conformed. The cortinary irreduction of a Municial extends to all suits in which the amount or value of the subject making in dispute does not enced in 1.000

though the limit may be extended to Rs 2 000 On the criminal side the sessions Judge hears appeals from Magistrates exercising first class powers while the District Magistrate is the appellate authority for Magistrate exercising econd and third class powers. The District Magistrate can also be, though in point of fact he very rarely is a court of first instance. It is usual in most districts for a John Magistrate or a Deputy Magistrate to receive complaints and police reports, cases of difficulty or importance being referred to the District Magistrate who is responsible for the peace of the district in the non regulation district the Deputy Commissioner and his subordinates exercise civil powers and hear rent suits.

### Local Self-Government.

Bengal Act III of 1884 which regulates the constitution powers and proceedings of Municipal bodies in this Province has been amended by the Bengal Acts IV of 1894 and II of 1896 Bv these enactments the elective franchise habeen further extended, and now provides for the establishment and maintenance of veterinary institutions and the training of the regulative staff the improvement of breeds of cattle the training and employment of female medical practitioners the promotion of physical culture and the establishment and maintenance of from libraries. The Commissioners may order a survey and organise a fire bright they may control the water supply when its purify is suspected, even to the extent of interference with private rights larger powers of precaution are conterred in the case of miner and dangerous bouses and other erections, as well as increased optional powers for the general regulation of new buildings

The total number of Municipalities at present or existence is 55 of which 6 were established during the last decade. The rateps or of 48 Municipalities have been granted the provider of electric two-thirds of the number of Commissioners fixed in each case, whilst in 24 cases the Commissioners are anthorised to elect their own Chairman. In the remaining towns Government has reserved to itself the power of appointing the Commissioners or Chairman as the case may be owing either to the backwardness of the place or to the necessity for holding the balance against contending interests or strong party feeling. It is only in 7 towns, however that Government exercises complete control in the appointment of both Commissioners and

Apart from Municipalities each district with the exception of Santal Parganas and Singh hum has District and Local Boards Municipal areas are excluded in excerdance with the provisions of section 1 Local Boards have been formed in all districts where there are sub-divisions except in Champaran and Ranch! There are at present 18 District Boards, 41 Local Boards and 9 Union Committees in the Province

sith. The jurisdiction of a District Judge or Satiordinate Judge extends to all original suits 7 of the Art a District Board is to consist of not against ble by the Civil Court. It does not less than 9 members. Local Boards are entitled bowever include the powers of a Small Came; to elect such proportion (as a rule one-ball) of Court, unless these he specially conformed. The thick whole of the District Board as the Lieute-ordinary jurisdiction of a Manait extends to all mant-dovernor may direct. In district where saits in which the amount or value of the subject there are no Local Boards, the whole of the basis in dispute does not enceed Be 1,000 members are appointed by dovernment. The

Chairman of the District Board is appointed by Government he is usually the disgistrate of the district.

### Land Tenures.

Retates in the Province of Bibar and Orissa are of three kinds. Permanently satiled from 1793 to be found in the Patna, Tirhut and Bhagaipur divisions. Temporarily settled as in Chota Nagapur and parts of Orissa, and estates beld direct by Government whether as propriet or or managed in the Count of Wards. The passing of the Bengal Tenancy Act (VIII of 1885) subgranded the rights of the cultivators under the Fermanent Settlement Act. Further the Settlement Department under the supervision of the Director of Land Recyrds takes periodical survey and settlement operations in the various districts both permanently and temporarily settled. In the former the rights of the under tenants are accorded and attested while in the latter there is the re-actulement of rents. In the re-actulement proceedings, rents are fixed not only of landlords but also for all the tenants. A settlement can be ordered by various by Government on application made by raints.

The tenures of Orlssa are somewhat different Under the zamindars that is the proprietors who took settlement from tovernment and payrevenue to Government direct, is a class of subordinate proprietors of proprietar, ienurableders who were originally village headmen celling more or less direct with the revolute authorities. They have a variety of names such as mutadam padham maurisis surbandar These sub proprietors or proprietary to me holders pay their revenue through the zamin dars of the extates will in which their lands lie in Chota Naguru Grissa and the Santal Par ganas the rights of village headman have been recognised. The headman collects the rents and is responsible for them lines, a deduction as remuneration for his trouble.

#### Police

The Departments of Police Prisons and Registration are used supervised and inspected by an Inspector General with a suitable staff of additional under the general direction of General and the sales of Fixed can wait is also inspector content of Fixed can under the Inspector Contral of Icide are

Under the Inspector General of Like are livre Deputy Inspectors General and 2.5 Super introductor. There are also ... Assistant Super introductor. The force is divided into the District Police & Criminal Investigation income from the Collection and distribution of information relating to prolessional criminals and criminal tribes whose operations extend beyond a single district and to control advise and assist in investigations of crime of this class and other serious masses in which its assistance may be invoked fibers are two companies of Millary Police which are maintained as reserves to deal with serious and organized disturbances and perform no ordinary civil duties. The work of the Rallway Police is practically conducted to offences actually committed on the railways, but they are under the control of the Deputy Inspector General of the Original Investigation.

Department, and an important part of their duties is to co-operate with the District Police in watching the movements of bad characters by rail. The prevention and detection of orime in the Province generally is entireted to the District Police. In that work they are assisted by the rural police known as chaukidars audafadars, who form no part of the regular force, but are under a statutory obligation to report all cognizable crime at the police station and generally to assist in the prevention and detection of orime. They are not whole time servants of Government but they are paid a small monthly salary which is realized from the villagers by the panchayat. The cost of the police is Rs. 46 48 000.

#### Education.

The Department of Public Instruction is controlled by a Director. There are four Divisional Inspectors of 8 hools one of whom it spects European schools in addition to his own duties. 2 Additional Inspectors, 3 Assistant Inspectors including the Agency Inspector in Orissa 4 special officers for Muhammadan Education 24 Deputy Inspectors (exclusive of five paid by Native States) 46 Assistant Sub Inspectors (exclusive of five paid by Native States) 46 Assistant Sub Inspectors (exclusive of one paid by a Native States) and .59 (uru Instructors (exclusive sylve of since paid) by Native States)

The main divisions of Educational institutions an Primary Secondary, Collegiste and Training

The main object of Primary Schools is to provide the massive with sufficient knowledge of reading writing and arithmetic to secure them in their dealings with the money lender and armindur or ramindars underlings Primary schools for Indian boys are of two classes Houser and Lower

It is probable that there will eventually be a new University situated at Pates The Important Secondary is hooks are the district or Zilla-Schools to be found at the head-quarters of each district file Higher English Schools with include private institutions as well as Government alded whools at sub divisional bead-quarters and Middle Fuglish and Middle Vermoular Schools which are under the control of District Boards. The District and Local Boards are also responsible for Primary Education with the assistance of the typert advisors of the Education Department. There are at present seven colleges in the publice—two at Patras, one at Bhazalpur one at Cuttack one at Hazarbagh (managed by the Dublin Mission) one at Untaffarpur and a small College at Monghyr The number of High Schools for Indian pupilis while 44 with 9300 pupils are aided by public funds. There are 23.231 Primary Schools with an attendance of 445.252 pupils of these, 18 802 are mandatured or aided by public funds. There are 23.231 Primary Schools with an attendance of 445.252 pupils is now receiving spechal training. There are 130 Guru Training Schools for Matresses. Other special institutions are 35 Industrial and Artisan Schools, two Commercial Schools and 14 Matrisan Schools, two Commercial Schools and 14 Matrisan Commercial Schools and 14 Matrisan Schools, two Commercial Schools and 14 Matrisan Schools for Indian Previous Previous Proposition in Arabic and Persean. The expenditure on public education from public funds mounts to Re. 48,98 000.

## Medical.

Medical.

The Medical Department is under the control of the Inspector-General of Civil Hospitals who is a Member of the Indian Medical Service.
Under him there are 20 Civil Surgeoms who are responsible for the medical work of the districts at the head-quarters of which they are stationed, 60 Dispensaries are maintained by J. F. F. Lowis, Government...

State Public State Special Police State Canal State Others 8

> 56 Total

Besides these there are 299 Dispensaries maintained by Local bodies Eniways, private persons etc 1159 646 patients including 48 421 in-patients were treated in 1914. There is one Lunatic 4sylum and 8 institutions for the treatment of lepers

The Sanitation Department is in charge of the Sanitary Commissioner who is directly subordi nate to Government as its expert adviser in regard to sanitation. There are three Deputy Rankary Commissioners who work under the control of the Sanitary Commissioner Vacci nation is carried out by a staff under the direc tion of the Senitary Commissioner also a qualified Sanitary Engineer There is

### Administration

Louismant-Governor Sir Fdward Gait K C 8 I OTE Assumed charge of office 19th November 1910

#### PERSONAL STAFF

Private Secretary J C B Drake 10 s Aide de Comp D B Comming, Indian Police Honorary Aides-de-Camp Hon Capt Bardar Bahadur Hira Singh Subadar Major Sita Ram Singh, Limit (o) V N Hickley v D Major A. T Peppe

## EXECUTIVE COUNCIL.

R. V. Levinge C 8 I Took his seet, 1st tuguet

Marsia Bahadur Sir Rameswar Singh K ( | F Throhauga Took his seat 1st August 111. He William Vincent, Kt Took his seat 19th

A Die inber 1916

LEGISLATIVE COUNCIL

Printlest, The Lieutenant-Governor Pice-President, E V Levinge C.S.I.

Bz Officio

The Members of the Executive Council.

MOMENTALIZATION Officials:

C. E. A. W Oldham. F. G. Jannings. L. C. Adami. S F. Germing. R. H. C. Waish G. L. Searight.

H. Coupland Absan-ud-din Ahmed 1.80

Non-Officials.

Maharaja Bahadur Sir Ravaneswar Prasad Singh, K C I E Rai Bahadur Nishi Kanta Sen Madhu Sudan Das C.I E Rev 4 Campbell DD

PERCEPED

Keshari Prasad Singh. Kumar Girija Nandan Singh Kirtyanand Singh Raja Rajendra N Banj Deo Kumar Thakurai G Prasad Singh W A Lec T R Fligate CIE Saiyid Fakhr-od din Khan Bahadur Mahbub Hasan Khan Khan Bahadur Salyld Muhammad Tahir Khwaja Muhammad Nur Blahon Pressed Dwarks Nath Rai Bahadur I achmi Prasad Sinha Nimal Charan Mitra Sharat Chandra Sen Krishna Sahai Rai Bahadur Braia Kishor Presad Kumar Sheonandan Praced Singh Sudam Charan Nalk Bal Behadur Gopl Krishna

#### SECRETARIAN

Chief Secretary to Government Political Ap-positment and Educational Department II. McPherson

Secretary to Government Presental and Muni-cipal Departments h L. Hampond Secretary to Government Revenue Devartment H Coupland

Secretaries to Government (P W D) Irrigation Branch F Clayton

Buildings and Roads Branch G J Scarlisht BOARD OF REVENUE

Member W Maude.

Secretary J A Hubback MISCELLANEOUS APPOINTMENTS

Director of Public Instruction, J. G. Jeonings. Inspector-General of Police B. T Dandas Conscreptor of Porceis H Carter

Inspector-General of Civil Respitals, Vacant Senitary Communoser, Lt -Col E. C Hare 1.W.S

Impactor-General of Prisons Lt Col Bawa Jivan Blagh

Accountant-General V C Scott O'Couner Director of Agriculture, & Milne Registrar of Ca-Operatics Orabis Sociation, B A Collina.

# The Central Provinces and Berar

as uncertainties in the wars and financial relations. The resent consists shows that a gradual the research I radius all for the aborisms tribes as going parts were amais, annual after the Muting on The tribes are not regarded as immuse the first half of the 1stic century and the several 1 rabbiani ing of the aboriginal fribre is going parts were amalgamated after the Mutint on The tribre are not regarded as impure in 1961 into the Chief Commissionership in the Hindus and the process of absorption of the Central Provinces Berar was in 1853 assigned to the East India Company as part of a financial arrangement with the Nizam and was transferred to the Central Provinces.

When Sir Richard Timple became first Chief to the Central Provinces and the Company as the Company and the Provinces of absorption of the aboriginal fribre is going to the control of the Company and the process of absorption in the Company and the process of absorption in the Company and the process of absorption in the Company as part to the Hindus and the process of absorption in the Company as part to the Hindus and the process of absorption in the Company as part to the Hindus and the process of absorption in the Company as part to the Hindus and the process of absorption in the Company as part to the Hindus and the process of absorption in the Company as part to the Hindus and the process of absorption in the Company as part to the Comp

vening ones of plain country In the north west the Vindhyan plateau is broken country covered with poor and stunted forest. Below its precipitous southern slopes at etche the the the wheat growing countr of the barbada balley. Then comes the high Satours plateau characterised by forest covered hills and deep water out ravines. Its hill decline into the Nagure older that the characteristic beauty and the characteristic by the charac there as the the far runding rice country of Chattlegarh in the Vahanadi casm. The suth mast of the C.P. is spain mountainous contain.

# The People

The population of the province is a comparatively new community. I cfore the adven-I cfore the ad"ent If the Aryana the whole of it was peopled by the Gonda and these aboriginal inhabitants fured better from the Aryan than their like in most parts of India by ause of the rugged mature of their home. But successive waves of immigration flowed into the province from all sides. The early inhabitants were driven into the inaccessible forests and hills where they now instituted a large portion of the tribes they now instituted a large portion of the tribes of the more than half the working population in those parts who form a quarter of the whole is population of the C P. The Gonds are still found in large numbers in all parts of the province but they are partially concentrated in the south-east. The main divisions of the language in the south-east. The main divisions of the language in the south-east of the language in the control of modern enterprise slong the visions of the province. Hand brought in reliway routes has laid the foundations for great by the Hindustani-speaking peoples of the North control of the province. Nagpur is the chief centre of

The Central Provinces and Berar compose Berar and the west and centre of the C P a great triangle of country midway between Hindia spoken by 56 per cent of the popula Bombay and Bengai 1h L area is 130 991 tion and is the largua franca Marathi by miles of which \$2 000 are British terri | 31 per cent and in Berar and Gondt by 7 per tory proper and the remain ler held by Fenda | cent | The effects of largelon are curiously tory thiefs. The population 1911) is 3-30-8 308 Billustrated in Berar where numbers of Meslems under British administration and 2 11 092 in the Fendatory States | various parts of the Rendatory States | various parts | various | various parts |

of a financial arrangement with the Mizam and was transferred to the Central Provinces in 1903 as the result of a fresh agreement with the Nizam

The Country

The Central Provinces may roughly be divided of not their tracts of upland with two interpretations or palar country. In the ports of the province of the light of the province of the country administration has made roads in all direct than the province of the province and in the country of the province was the p the last new years a great impetus has been given to the construction of subsidiary lines. now to the constitution of variodizing mea-fines developments have caused a ready growth of trade and have aroused vigorous pro-gress in every department of the The prime industry is of course agriculture which is re-lated by one of the most admirable agricultural lepartments in India and is now receiv water-out ravines. Its hill decline into the variety of the country has been declined and its new rocal. The country has been declined and the water of the country has been declined and the water of the country has been declined and the water of the country has been declined and the water of the country has been declined and the water of the country has been declined and the water of the country has been declined as the country has been declined as the country has been declined as the country of Nagpur Further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the best problem of the country of Nagpur further as the cou tirn has gradually been built up to protect the individual cultivator. Berat is settled on the that each is the far reaching are country of individual cultivator. Berst is settled on the mast of the C.P. is again mountainous contain that 24 600 square miles of the containing to the containing the containing the first and precipitions ravines and meetly industrial by jungle titles. The Feulatory beates of Pastar and of the greater part of the country makes Kankar lie in this rigion. Berst has to the forest country and of the greater part of the country makes Kankar lie in this rigion. Berst has to the forest country and of the greater part of the country makes to the forest country and wastes 57 per cent of the lie its the title black cotton soil plains. most advanced districts the proportion is 80 per cent and in Berar the figure is also high The cultivated area to extending continuously excipt for the temporary checks caused by had seasons Rice is the most important crop of the Wheat comes next with 15; per cent, then pulses and cereals used for food and oil seeds with 11 per cent and cotton with 7 per cent.

In Berar cotton occupies nearly 40 per cent.

of the cropped area jowar cowrn an equal
extent then wheat and oll seeds. In agriculture more than ball the working population

a busy cotton spinning industry. The Empress Mills, owned by Parsi manufacturers were opened there in 1877 and the general prosperity of the cotton trade has led to the addition of many mills here and in other parts of the province. The total output of spinn yarn own amounts to approximately 50 million yards a

The largest numbers engaged in any of the modern industrial concerns are employed in manganese mining. Then follow coal mining the Jubbulnore marble quarries and allied works the limestone quarries and the mines for pottery clay scapstone &c

The total number of factories of all kinds legally so described was 438 in 1914 the latest period for which returns are available and the number of people employed in them 47 159 The same economic influences which are operative in every progressive country during its berangiton stage are at work in the C P and Berangradually sapping the strength of the old village industries as communications improve, and concentrating industries in the towns. While the village industries are fading away a large development of trade has taken place. The last available reports show an increase in volume by one third in eight years. In 1914 for the first time statutice for the Burar factories were incorporated with those of the ( P

#### Administration

The administration of the Central Provinces and Berar Is conducted by a Chief Commis-aloner who is the controlling revenue and executive authority and is appointed by the Governor General in Council He is assisted by three secretaries two under secretaries and an secistant secretary. Simultaneously with the jubilee of the foundation of the Province in 1913 suches of the foundation of the Province in 1913 a Legislative Council was constituted it consists of 24 members excluding the third Commissioner being elected by monicipalities, District Councils and Landholders in the C P and 17 nominated by the Chief Commissioner of whom not more than 10 may be officials and 3 shall be non-officials chosen be officials and 3 shall be non-officials chosen respectively by the municipalities District Boards and Landholders of Berar The Chief Commissioner may nominate an additional member official or non-official, who has special knowledge of a subject on which legislation is pending The C P are divided for administrative purposes into four divisions and Berar constitutes another desirious. Take it for the state of the stat division. Each of these is controlled by a Com three other divisions into three districts each and one into three and these are controlled by Deprity-Commissioners immediately subordinate to the Commissioners. The principal heads of Provincial departments are the Commissioner of Provincial departments are the Commissioner of Bottlements and Land Records the Inspector General of Civil Hespitals and Sanitary Commissioners the Inspector-General of Probles the Inspector-General of Probles in the District Councils is similar. The officer of the Inspector-General of Probles in the District Councils is similar. The officer of the Inspector-General of Probles in the District Councils is similar. The officer of the Inspector-General of Probles in the District Councils is similar. The officer of the District Councils is similar the officer of the District Councils is similar. The officer of the District Councils is similar the officer of the District Councils is similar. The officer of the District Councils is similar the officer of the District Councils is similar. The officer of the District Councils is similar the officer of the District Councils is sim Departy-Commissioners immediately subordinate

ferests are managed by a forest officer, usually a member of the Imperial Forest Service over whom the Deputy-Commissioner has certain powers of supervision particularly in matters affecting the welfare of the people. Each district has a Civil Surgeon who is generally also Superintendent of the District Jail and whose supernatedom to the District Jan and whose work is also in various respects supervised by the Deputy-Commissioner. The Deputy-Commissioner are also markage registrar and manages the estates of his district which are under the court of Wards. In his revenue and criminal work the Deputy Commissioner is assisted by (a) one or more Assistant Commissioners or members of the Indian Civil Service (b) one or more Extra Assistant Commissioners or members of the Provincial Civil Service usually natives of India but including a few Europeans and Eura mans and (c) by tabelldars and nalb tabelldars or members of the Subordinate ser vice who are nearly alway natives of India. The district is divided for administrative pur the district is divided for administrative pur power into tablely the average area of which is 1500 square miles in each village a lam bardar or representative of the proprietary body is executive headman

The Judicial Commissioner is the highest court of civil appeal, and except in cases against European British subjects in which the High court of Bombay has jurisdiction is the high est court of criminal appeal. He is assisted by an Additional Judicial Commissioner for the Central Provinces and another for Beray The administration of criminal justice was formerly entirely in the hands of Commission era and the District staff but Commissioners have now no criminal powers as such and their nave now no criminal powers as such and their place as Sessions Judges has been taken by Divisional Judges. By the Civil Courts Act of 1994 the civil has finally been separated from the executive department. The civil staff consists of Divisional Judges District Judges, "Subordinate Judges and Munciffa.

### Local Government

Municipal administration was first introduced under the Punish Municipal Acts and the Muni-cipality of Nagpur dates from 1884 Several revising Acts extend its scope Viewed gen revising Acts extend its scope. Viewed gen-crally municipal self government is considered to have taken root successfully. The general basis of the scheme is the Local Board for each district. In Borar these bodies are called Taluk Boards and District Boards. The larger towns have municipalities. A cer-tain proportion of the Local Board members are village headmen elected by their own class, others are elected representatives of the mer

The committee say The University which solved is they are designed to meet certain we propose will possess powers which will special needs and do not aim at providing entitle it to a high place in the administrative courses of a univerlity standard. It will be machinery of the Provinces But administra sive autonomy involves a certain measure of will public the demand for higher courses financial independence and we have made proposals accordingly It is true that the University will be mainly dependent on the original to demand for education of the control of One cannot for financial support Apart from fees the University at first at any rate will have no resource of its own. But we confess to a desire to see it vested with financial control over the grant which it receives from bovern ment as well as over its other receipts. If we may be primitted to employ a simile the Government should regard the University as a business concern of which it is a shareholder | with a seat on the Board of Directors rather |

Chief Commissioner of the Province will be the Chancellor The Vice (bancellor will be an honorary officer nominated by the Chancellor The Benate will be the supreme authority subject to the general control of the Govern ment It will be a body of 75 members con sisting partly of p presentatives of Government and of the gueral public partly of elected and of the givent pools pactly of elected representatives of the graduate, and partly of teachers of the University and the constituent teachers of the University and the constituent colleges the latt r being nominated by the Chancellor. The windleast will be the executive of the University and will consist of the Vice Chance flor the Director of Public Instruction a member of the Smate nominated by the than a memor of the "charte nominated by the Chancellor four Principals of collers, the Deans of the Faculties and three mamber elected by the Senat from among the room number of whom rot more than one shall be a member of the traching staff The Chancellor nominee on the andicate should be a person possessed of general administrative experi ne In both these bodies the members of the teaching staff will predominate

After careful consideration, we have arrived at the conclusion that a university po-sessing the wide admini frative and educational powers which we propose must be governed by a body in which professional and expert opinion will predominate. This we think we have secured by giving the members of the traching staff a predominant voice in the counsels of the University

We recommend that the University shall contain at its inception Pacoities of Arts Law and Science and a department for the training of teachers subordinate to the Faculty We have considered the question of establishing a Faculty of Agriculture But in view of the necessity which the Government Department of Agriculture feels of pursuing a tentative policy for some veers to come with regard to agricultural education we feel that it would be inadvisable at the present juncture to suggest that the University should make provision for instruction in this branch know edge As to the Medical and Engineering courses of a univer ity standard. It will be many years before the demand for bleber courses

primary or secondary was satisfied by a few institutions in the larger towns while in the whole of the rural districts primary education had to be pressed on an apathetic and even obstructive agricultural population. The new spirit of progress in recont years has quickened the public pulse and the florts of Government to effect improve dig allifties have responded ac-cordingly special grants from the Govern with a seat on the Board of Directors rather have lar ety been devoted to as 1sting the have lar ety been devoted to as 1sting the parment the disposal of which must be checked frequently and in detail.

We recommend that the administration of the University be verted in a Chancellor Wice than allor Special and Syndicat The Chief Counties for the Province will be the most of the University be verted in a Chancellor Chief Counties for the Province will be the most of the University be verted in a Chancellor Chief Counties for the Province will be the most of the University be verted in a Chancellor Chief Counties for the Province will be the most of the University be verted in a Chancellor Chief Counties for the Province will be the most of the University be verted in a Chancellor Chief Counties for the Chief Counties of the University be verted in a Chancellor Chief Counties for the Chief ment of India budget orploses in reach years

The modical and sanitary services of the province are respectively controlled by an Inspector (cores) of Civil Hospitals and a Sanitary Commissioner the latter being assisted by a Sanitary Engineer. The medical deed by a Sanitary Engineer. The medical de-partment has progressed along comparatively storeotyped lines. A striking advance has the made in recent years with urban sanita-tion. The principal medical unstitutions are the Mayo demorial Hospital at Napur open the Maxe demons nospiral at Nathur open ed in 1874 with accommodation for so in patients, the Victor's Hopital at Jubbulpers opened in 1886 and accommodating 64 in patients, the Lady Duff, the Propitals at Naspur and Rairnr and the Lady Light Hospital at Julibulpore these la t three being for woman and containing togeth ruccommodation for 64 in and containing togeth raccommonation for early patients. The province has two limatic asy lums at Nagpur and Jubbulpura respectivity vaccingtion is compulsory in some Municipal towns to which the Vaccination Act has been extended. The administration in 1913 sanctives the contract of th op ning of peripatetic dispensaries in un h aithy ar as

# Administration.

Chief Commissioner Sir B Robertson & C.S.I. CIE apptd 3rd Aug 1912

Personal Assistant D G Watson.

Chief Secretary J T Martan M A I C 8

Regustrar R W Johnson Secretary Public Works Department (Irrigation Branch) 4 J Wedley

inancial Commissioner H A Crump

Commussioner of Settlements and Director of Land Records H E Hemingway I C &

BERAR

Commissioner F G Sly CBI

Members of Council.

NOMINATED MFMI ERS Mr Henry Ashbrook Crump C S I I O R
Bertram Prior Standen, O I E I O R
John Thomas Marten L L
H F Ellwood Beil B I O R John Hullah, I C &

	<del> </del>	
Mr Charles Stewart Findley 10 9	R. Temple (Officiating)	1868
Richard Hugh Tickell CIE MIGE	Colonel E K Elllot	1868
Col George William Patrick Dennys OIR	J B Campbell (Officiating)	1864
JALE	R. Temple	1304
Mr R C H Moss King I C s	J S Campbell (Officiations)	1865
Arthur funer Mayh w	R Temple	1865
Henry Edmund Hemingway 108	J H Morris (Officiating)	1867
NON-OFFICIALS	G Campbell	1867
Raja Jawahir Singh of Sarangarh,	J H Morris (Officiating)	1868
Lhan Bahadur Nawah Muhammad Salamullah	Confirmed 27th May 1870	
khan CIL	Colonel B. H. Lenninge C 81 (Offg)	1870
Diwan Dahadur Seth Sir Kusturchand Dag:	I H Morris ( 81	1872
EUR PULL I III TO TO THE POLICE OF THE POLIC	( Genut (Officiating)	1879
Rai Jahadur dr Bipin Arishin Lose At 11E.	J Н Мотгия СВІ	1879
TIECTED MEMBER	W B Jones (91	1888
Mr Sheo Prasad Shrivastava BA, LL B Rai sahib with Mathmal BA	C H T Crosthwaite (Officialing) Confirmed 27th January 1885	1884
ht Morethwat Ruodingt Ba Jacat Law	To Prespective (Meating)	$\Omega \mathcal{W}_{0}$
Ral whib Mathura Pra.ad.	J W Neili (Officiating)	1887
Rao Bahadur Narayan Rao K ikar	A Mackenzie OSI	1887
Rai Bahadur Bishun Dutti Shukul a A.	R J Crosthwalte (Officiating)	1889
Raja Bahadur Raghoji Rao I hopale	Until "th October 1889	
Rao Bahadar Ranganath Narsinha Mudholkar	J W Neill (Officiating)	1890
BA LL B	A P MacDonnell C 41	1891
Rao Banadur Keshay Govind Damle BA LLD	J Woodburn [181 (Officiating)	1898
Mr Moropant Vislowanath Joshi BA LL B	Confirmed 30th November 1893	
MISCELLANEOUS APPOINTMENTS	C J Liali C31 CIL	1895
Director of Public Instruction A G Wright & 4	D C J Ibbetson C &L	1898
Inspector-Gene al of Police It M. king 1 0	A H L Fracer CSI (Officiating)	1800
thef Conservator of Porests Moutague Hill	Confirmed 5th March 1302	***
CIE FLS  Inspector (senseal of Caral Hospitals Col. ( W.	J P Hewett Obl (IE (Officialing) (onfirmed 2nd November 1903	1902
Inspector General of Card Hospitals Col ( W. P. Donibys 185	F S P Lely C 3 I (Officiations)	1904
Sanstary Commissioner Major T G N Stokes	Confirmed 23rd December 1904	
ING	JO Miller Car	1905
Commissioner of Excise etc. 4. Maine I C S.	S Ismay C 51 (Official rig) Until 22rd October 1996	1906
Comptroller (Financial Dept.) J. C. Mitri	F 4 T Phillip (Officiating)	1907
Postmaster General H & Sams	Until 25th March 1907 Also from 20	
Director of Agriculture and Industries C 6 Leftwich 108	May to 22nd November	1909
Regustrar of Co-operative Credit Societies, H R.	R H Craddock CSI	1907
Crosthwalte	H A Crump (Officiating)	1912
Chief Connibbion erb	M W Fux Strangways Cb L (Sub pro	1912
Colonel E k 1 litot 1861		1912
Lieut. Colonel J h. Spence (Officialing) 1862	Bir B Robertson K.CS L.O I K.	INT

# North-West Frontier Province.

The Korth-West Frontier Province, as its warfare occurred with the border tribes but name denotes, is situated on the north west since the conclusion of peace with the Aridis hondler of the Indian Empire It is in formal in 1893 the whole border has been undusturbed an irregular strip of country lying north by east and south by west and may generally be case and some by west and may generally be fuscribed as the tract of country, north of Bainchistan, lying between the indus and the Durand boundary line with Afghanistan To the north it extends to the mountains of the Hindu Kush From this range a long broken line of mountains runs almost due south, dividing the province from Alghanistan until the Sulaiman Range eventually closes the south of the Province from Baluchistan The south of the Fronne from Baucanstan the greatest length of the priving is 40s miles, be greatest breadth 279 miles and its total area about 90 000 equare miles The territory falls into three main geographi al divisions the Cis Indus district of Ruzara the marrow stup between the Indus and the Hillsthe containing the Districts of Pedawar Kohat Banu and Dera Ismall khan and the rugged mountainous regions on the north and west between those districts and the border line of between those discricts and the border into of Afghanistan Hazara and the four districts in the second division contain 13418 square miles. The mountain regons north and seek, are occupied by titles subject only to the poil tical control of the Chief Commissioner in his capacity as Agent to the Governor General. The area of this tract is roughly 25 500 square miles and in it are situated from north to south the political agencies severally known as the Maiakand Khyber Kurram foch and wana Agencius basdu of the Deputy Commissioners of the five administered districts by responsible for the management of political relations with certain tribes or section of the tables across the frontier A few hundred miles of the trans-border Territory are intermally administered by the Political Agents but the bulk of the transborder population in free from any internal interference so long As offences are not committed and so long as the tribes observe the conditions on which allowances are paid to many of them.

The area of the Province is a little more than

half that of Bombay (excluding Bind and Adea); and amounts to more than thre fifths of the size of Bagland without Wales. The density of population throughout the Province equals 98 persons to a square mile, but in the more hypered portions the pressure of population is much greater. In the Hazara District there are 207 persons to a square mile and in the trans-Indus plains tract the number is 152.
The key to the history of the people of the M-W F P lies in the recognition of the fact. that the valley of Peshauar was always more consists which indicates with Eastern limb than with India though in pre Maho medan times its population was mainly Indian menual simes its population was mainly indian by mace. Early history finds the Iranian whatever reasons, rogards the birth of a dominating the whole Indus valley. Then daughter as a misfortune, the less said about the Great invasion under Alexander which the better The population is naturable Great, in BC 827, then the invasion of raily increasing, but emigration reduces the the batter, and result.

The dominant language of the Province is the Sakas, and of the White Huns and man, the dominant language of the Province is Last same the Sikh lavasion, beginning in Pashtu and the population contains several 1818. The Frentier Territory was annoted linguist strata. The most important sections by the British in 1849 and placed under the of the population both numerically and by control of the Punjab Government. Frequent social position, are the Patisans. They own

except for the expedition against the Zakka Abel Afeldia in 1908

The division of the Frontier Province from the Puniab was frequently discussed with the double object of securing closer and more immediate centrol and supervision of the Fron tier by the Supreme Government and of making such alterations in the personnel and dutles of frontier officials as would tend to the esta-tlishment of inproved relations between the local British representatives and the indepen dent tribesmen. The province was eventually removed from the control of the Punish ad removes and the control of the range at munistration in 1901. To it was added the political charge of Dir Swat and Chitral the Political Agent of which had never been and ordinate to the Ponjab The new Province was constituted under a Chief Commissioner and Agent to the Governor General with head quarter at Peshawar in direct communica-tion with the Government of India in the Foreign Department in political questions there is no intermediary between the Chief Commissioner and the local officer an arrangement designed to secure both prompt disposal of references and the utilisation of the expert knowledge of frontier conditions for which the head of the administration is selected

### The People

The total population of the N W.FP (1911) is 3 810 027 made up as follows -

Hazara A03 02A Trans Indus Districts 1 593.90a Trans Border Area 1 829 004

This last figure is estimated. There are only 625 6 females per 1 000 males in the towns and ows consists per 1 000 majes in rural areas ows tensists per 1 000 majes in rural areas This disproportion of the sexes cannot at pre-sent be explained in the N W P any more than in ofter parts of Northern India whe c it also appears. The discrepancy is greater here than in any other Province of India. There is no ground for believing that the neglect of girls in infancy has any effect in causing the phenomenum. On the other hand the female population has to face many trials which are unknown to men. The evils of unekilled mid witer, and early marriage are among them Both the Lirth and death rates of the Province are abnormally low. The birth rate in the administered districts according to the last annual official reports was 35 I and the death annual official reports was 35 I and the death rate 33 of There were 122 5 male births for every 100 females It is recognised that in this matter and in regard to population cenerally the registration of females may be defertive lnamuch as the Fathan for whatever reasons, rogards the birth of a

a very large proportion of the land in the ad ministered districts and are the ruling race of the tribal area to the west. There is a long list of Pathan Baluoh Rajput and other trib al divisious Gurkhas have recently settled in the Province The Mahomedan tribes constitute almost the whole population Hindus amounting to only 6 per cent. of the total and slike to a few thousands. The occupational cleavage of the population confuses ethnical divisions.

Under the North West Frontier Province Law and Justice Regulation of 1901 custom Law and Justice neguration of 1891 customs, performs all questions regarding successions, beforthal marriage divorce the separate property of women dower, wills gifts partitions family relations such as adoption and guardianship and religious marges and institute and provided first the outston has not contutions provided that the custom be not con trary to justice equity or good conscience in these matters the Mahomedan or Hindu law la applied only in the absence of special custom

Climate Flora and Fauna The climatic conditions of the N which is mainly the mountainous region but includes the Poshanar Valley and the riversine tracts of the Indus in lacra Ismail k.han lus tracts are extremely diversified. The latter district is one of the hottest areas of the Induan continent while on the mountain ranges the weather is temperate in summer and intensely neather is temperate in summer and intensely cold in winter. He air is generally dry and hence the suntal ranges of temperature are frequently very large. The Province has two wet seasons one the S W Monsoon season when moisture is brought up from the Arabalu Sea and the Bay of Bengal the other in winter when storms from Mesopotamia Persis, and the Casplan Dictricts bring widespread rain and snowfall. Both sources of supply are precarious and not infrequently either the winter on the Numeron minell falls. either the winter or the summer rainfall fails almost entirely. The following description of the Daman the high ground above th Indus stretching across Dera Ismail Khan to the mountains on the west occurs in a account written some years ago by Captain Crost waite Men drunk once a day and the cattle every wound day Washing is an impossible luxury It is possible in the bot weather to ride thirty miles and neither hear a dog bark nor see the smoke of a single fire. With the execution of the Kunhar River in Hazara which flows into the Jhelum, the whole territory drams into the Indus. The flora of the Province varies from the shrubby lungle of the south-castern plains to barron hills, pine forests and fertile mountain valleys Digers used to abound in the forests but are not quite extinct leopards hyenas wolves jackals and foxes are the chief carrivors. Bear deer and monkeys are found a great variety of fish is cought in the Indus.

The mountain scenery is often magnificent The frontier ranges contain many notable peaks of which the following are the principal Takht-I Sulaiman Sulaiman Range, in Lera Ismail Khan, 11.292 feet. Pir Ghal, Sulaiman Range, in Mahaud Wa-ziristan, 11.683 feet. Sika Ram, in the Saled Koh, in the Kurram

Agency 15 621 feet.

Kagan Peaks of the Himsleyss, in the Ha zara District, 10,000 to 16 700 feet

latragh Peak (18,900 ft) Kachin Peak 22,64 I ft.) Tirich Mir (25 426 ft.) all in the Hindu Kush, on the northern border of Chitral Agency

Trade and Occupations The population larives its subsistence almost wholly from agricultur The Province is practically without manufactures. There is no considerable surplus of commercial pro-ducts for export which the province possesses it owes to the fact that it her across the great trade routes which connect the trans border tribal territories and the marts of Afghanistan and Central Asia with India but the influence of rail ways is diminishing the importance of these trading interests. The travelling traders (or Powindals) from the trans frontier area have rownions) from the trans runner area have always pursued their wanderings into India and new instead of doing their trading in towns near the border court it by train to the large cities in India Prices of agricultural produce laye in recent years been high but the agirculturals coming to the poverty of the means of communication have to some extent been dirrived of access to Indian markets and have therefore been unable to profit by the rates prevailing On the other hand high prices are a bard hip to the non agricultural classes. The effects of reacht extensions of irrigation have been important land tenures are generally the same in the British administered districts as in the Punjab The cultivated area of the land amounts to 32 per cent and uncultivated

to 68 per cent the work of civilisation is now making strady progress Relations with the tribes have improved trade has advanced, free medical relief has been vastly extended police admit nustration has been reformed and the desire of people for education has been judiciously and sympathetically iostered In the British administered districts 19 per cent males and 7 per cent, females of the total population are returned as literates The figures for males denote a very narrow diffusion of edu-cation even for India. Those for females are not notably low but they are largely affected by the high literacy amongst Sikh women, of whom 13 3 per cent are returned as literate. The inauguration of a system of light railways The inauguration of a system of light railways throughout the Province apart from all considerations of strategy must materially improve the condition of the people and also by that means strengthen the hold of the administration over them. The great engineering project of the Upper Swat River Canal, which was completed in 1914 and the lesser work of the Paharpur Canal also completed a year or two ago will bring ease and prosperby to a number of peasant house. There has arises in recent years the difficult question of the importation of thousands of rifes from the Persian Gulf Elsborate measures were taken to stamp out the traffic, under the direction of the Naval Commander in-Chief in the East Indies and with the tardey consent of France an agreement was made with the Snitan of Mucat to stop the trade in arms from that place Muscat having been the entrepot for the traffic.

Administration. The administration of the Worth-West Prontier Province is conducted by the Chief Administration

High Court and

Divisional

Judges.

Commissioner and Agent to the Governor General in Council. His staff consists of-

- (1) Officers of the Political Department of the Government of India.
- (2) Members of the Provincial Civil Service.
- (3) Members of the Subordinate Civil Service. (4) Superintendents and Assistant Super
- intendents of Police (5) Officers recruited for the service of departments requiring special knowledge— Militia. Engageering Education Medicine

and Forestry The cadre posts reserved for office's coming under the first head above are -

> Agent to the Gov ernor General Secretary Assistant Secretary Personal Assistant Revenue Commissloner and Revenue becretary Resident in Waziristan Deputy Commisstoners Political Agents 11 4 District Judges Assistant Commis sioners and Assist- 12 ant Political Agenta One Judicial Commis sioner Two Divisional and } 3

Sessions Judges

Chief Commissioner &

The districts under the Deputy Commis cloners are divided into from two to five ab | collectorate in charge of tabellidars who are Secretaries Public Works Department tol invested with criminal and civil and revenue W J D Dundee CIE Z W Carue powers, and are assisted by naib-tabellidars, Agency Surpeon and Administrative Meacal Some archidusians are in charge of Assistant Officer Lieut Col T W Irvine I is S Some sub-divisions are in charge of Assistant of Extra Assistant Commissioners. The vil lage community characteristic of some parts of India is not indigenous among the Pathans. Its place as a social unit is to some extent taken by the tribs which is held together by the ties of kinahip and ancient succetry rual or imagi-nary Modern municipal local government has been introduced in the towns. There are also district boards. The district is the unit for police, medical and educational administration and the ordinary staff includes a District Superintendent of Police a Civil Surgeon who is also the Superintendent of Jall and a District Inspector of Schools. The Province District Inspector of Schools.

forms a single educational circle and only posforms a single education that of Harars. There are four divisions of the Roads and Building Branch of the Public Works Department, each under an Executive Engineer The Irri gatton Department of the P W.D is in charge

of the Chief Engineer Irrigation Puntab who is also ex-office Secretary to the Chief Commissioner The administration of the Commissioner The administration of the civil police force of the districts is vested in an impector General There is a special force of Border military police. The revenue and expenditure of the Province are wholly Imperial Of the Agencies only Kurram and Tochi Valley pay land revenue to the British Government. The revenue administration of all five administered districts is controlled by the Revenue Commissioner For the ad ministration of dvil and criminal justice there are two Civil and Sessions divisions, each presided over by a Divisional and Sessions Judge. The Judicial Commissioner is the Judge. The Judicial Commissioner is the controlling authority in the Judicial branch of the administration and his Court is the highest criminal and appellate tribunal in this Province The principal officers in the present Administration are

Agent to Governor General and Chuf Commus sioner Heut-Col Sir G O Roos Reppel KCSI Kelle assumed Juage 4th June 1908

1 Rendent, Wa cristan Sir J S Donald USI KCIE

Judicial Commissioner W P Barton CIE 1 C g

Revenue Communicater Lieut -Col D B Blake WAV LIE LA

Secretary to Chief Communiconer E H Keuly Asst. Secretary to Chief Commissioner, C. Latimer

Indian Personal April to Chief Commissioner Risakiar Moghal Bar Lhan

Inspecting Officer Frontier Corps Lient (of J & Kembali 1 A.

Direstonal and Segmons Judges Lieut Col. C F Minchin DSO 1A F P Rennie Political Agents

Major W J Keen, I a Dir bwat & Chitral

S E. Pears Khyber J A. O Fitzpatric Tochi

Major R. Garratt JA. Kurram. Inspector General of Police H A Close. Director of Public Instruction J A Richev M & Superintendent Archaeological Survey Bir V. A. Stein KOIR PR.D LITT DEC

Former Chief Communicationers Lieut.-Col. H A. Desne, Cal. Died 7th

July 1908 W R. H. Merk, 0.5: Officiating to 31st Oct 1910

The Province of Assam, 61 682 square talles increase in tenancy throughout the Province in area, includes the Assam Valley Division, is shown the Surma Valley and Hills Division and the State of Manipur It owes its importance to ment) Bi its situation on the north-east frontier of India. It is surrounded by montainous ranges on three sides while on the fourth (the west) lies which debouch the two valleys of the Brahma putra and the Surma which form the plains of Assam These two valleys are separated from each other by the Assam Bange which projects westward from the hills on the eastern border

# Population

The total population of the province in 1911 was 7 059 8-7 of whom 1; millions were Ma homedane, 3; millions Hindus and 1; millions Animists 46 per cent of the population speak Bengali 22 per cent speak Assamese other languages spoken in the province are Hinii Uriya and a great variety of languages classified under the general heading of the Tibeto-Chinese languages Owing to the great areas of waste and rivers the density of the province is good 15 which compact with that of most other parts of India, is low but is, more than double that of Burma.

### Agricultural Products.

It has agricultural advantages for which it would be difficult to find a parallel in any part of India climate soil rainfall and river ava terms all being alike favourable to cultivation Rice is the staple food crop about 4 million acres being devoted to this crop Except in the Himalayan Teral irrigation is unnecessary Jute and ten are the most important crops grown for export the area under jute being generally about 40 000 acres that under tes about 3"6 000 seres. In 1914 the total number of tes gurdens was "62 the production being estimated at 204\_27 000 lts What und tobacco are also grown and about 10 square miles are devoted to sugarcane. The total as a of reserved forest is about 47"8 aquare miles and the unclassified state forests cover about ld 509 square miles

### Meteorological Conditions.

Rainfall is everywhere abundant and ranges from 93 to 124 inches The maximum is reached at Cherrapupi in the Khasi Hils, which is one of the wettest places in the world having a rainfall of 459 inches The temperature ranges from 59° at Sibespar in January to 84° m July Earthquaks of considerable severity have taken place, by tar the worst being that which occurred in 1897

### Lard Tenures.

ment of Bengal, and the system of land tenure in Cachar and the existence of large estates on privileged rates of revenue in Kamrup have tended to produce a tenant class which at the 1901 consult amounted to more than one-chird of the total number of persons supported by the Assam Bengal Railway which runs trens agriculture. In the 1911 consults avery marked the port of Chittagong to Silebar at the casterns.

The Assam Labour and Emigration (Amend ment) Bill was passed on the 24th March 1915 The act carries with it the abolition of the recruiting contractor and the creation of Labour Burrau to supervise recruiting

### Mines and Minerals.

The only minerals in Assam worked on a commercial scale are coal linestone and petroleum oil. The most extensive coal mea petroleum oil The most extensive coal measures are in the Naga Hills district, where about 800 000 tons are raised annually and used mainly by the river steams a. There has been a very marked rise in recent years in the price of Assam coal which rose from under Ba 6 per ton in 1912 to Ba "in 1914 I lime stone is quarried in the Khasi and Jaintia Hills in Syliet and in the Gare hills 108 431 tons were quarried in 1014 Petroleum is worked only in Lakimpur the oil is rich in naraffin and the other products are light in naraffin and the other products are light in paraffin and the chief products are light naphthas kerosine and wax. The oil is sold naphthas kerosine and wax. The out is sold locally and the wax is exported mainly to England. Jubicating oil is produced on the southern slopes of the Khasi Hills. The total output of oil from the wells was in 1914 over 4 688 000 gallons valued at Rs. 2 31 980.

An account of the petroleum occurrences in Assam was recently published in the menoirs of the Geological Survey of India It states that the petroleum localities in this province are confined to a curry obstice occurrence. province are confined to a curved belt of country along the hasins of the Braimaputra and Surna This belt is traccable over a distance of some 800 miles from N.E. Assam through Rachar and Chitagong to the Arakan coast, where it has a 8.8 E trend it is roughly concentric with the trend of the Burmese oil belt the distance between the two varying from 20 to 1.0 miles Arakan coast, where of the little of the concentration of the Burmese oil belt the distance between the two varying from 70 to 150 mil s. Various parts of from 70 to 130 miles, various parts or the Assam Kachar Chittagang Arakan belt have been exploited in a primitive way but there are only two property worked fields of commercial importance ric., those of Digbol and Empa Pung two localities only about a mile apart in NE Assam.

#### Manufactures.

Silk is manufactured in the Assam Valley the weaving being done by the women Cotton weaving is also largely practised by the women and almost every house contains a lorm the cloth is being gradually displaced by imported goods of increasing the colour. Boat building brass and metal and eartherwares tea manufacture and limestone burning are the other industries apart from agriculture, which itself employs about 84 per cent of the population Assam carries on a considerable trade with the ad Most of the actual cultivators of the soil aloue 184 per cent. of the population Assam area of land on which rent is paid is income area of land on which rent is paid is income density populated portions of 8yhet but trappets from all other hill tribes decreased was bowever included in the permanent settler. mainly owing to the discontinuance of returns of imported rubber

## Communications

The trade of Assam is chiefly carried by

end of the Surma Valley A branch of that line) were united with the Bengal Commissionerships runs along the south of the Asam Valley from of Burdwan and the Presidency to form the Gauhati to Tinsuckia a station on the Dibru | Presidency of Bengal under a Governor in Sadiya Railway and is concected with the Council Bluer Chota Kagpur and Orissa were Surmas Valley branch by a line that pleres formed into a separate province while the old the North Caschar Hills the points of junction of Province of Asam was re-constituted under being Lundding in the northern and Badarpur | a Chief Commissioner | Chief Commissione to the southern valley The Eastern Bengal State Railway connects Assam with the Brngal system rut the valley of the Brabmaputra The axeellence of its water communication naker Assam less dependent upon roads than other parts of India but in resent years the road system has been developed and there is s trunk road through the whole length of the Brahmspurta Valley and an excellent road from Gauhati to Shillong A large fiest of steemer maintained by the India Genoral Steam Navigation Company and the Ravers Steam Navigation Company and the Rivers
Steam Navigation Company piles on the rivers
of both valleys. A daily service of passenger
boats runs from Goalmodo to Dibrugarh

Gross receipts in 1915 14 rose from Rs. 1 89 42 888 to  $R_b$  1  $\ell$ 0 04 311 and gross expenditure from Rs 1 44 18 "65 Rs 1,86 79 558 The provincial account opened Re 1,88 79 508 The provincial account opened with a balance of Re 7808 494 which included intertal assignments for various purposes aggregating Rs 48 50 000 Receipts amounted to Rs 1 60,28 700 and expenditure to Rs 182 90 91 Further imperiol assignments amounting to Rs 5 13 000 were received during the year and with the unap at balance of the former assignments accounted for Rs 36 93 000 out of the closing balance of Ra 55 36 223

### Education.

The latest census report shows that there are in the Province at present 4118 educational institutions including two Arts Colleges with 168 250 pupils. Of the total population 333 672 are returned as literate The distribution of literacy naturally varies considerably throughout the Province. The large number of immigrant coolles and of aboriginal in the Brahmaputra Valley and a compara tively high standard of literacy in the Hills is due mainly to the progress of education amongst the Khads of whom a large proportion have been converted to Christianity Amongst have been converted to Christianity Amongst the Animists in the Hills the Lusbal, seem to which is the more remarkable because the administration of their district dates from quite recent times There are 4 5'8 public and private educational institutions with 215 141 public in the province

# Administration.

The province of Assam was originally formed in 1874 in order to relieve the Lieutenant-Governor of Bengal of part of the Lieutenant-Governor of Hengal of part of the administration of the luge territory then under birn. In 1903 as the result of further delibe rations it was decided to add to the small Province of Assam the eastern portion of its nativisty neighbour and to consolidate those territories maker a Lieutenant-Governor The Province of Restern Bengal and Amam as then constituted was again broken up on the lat of April, 1913 the Rastera Rengal Districts

a Chief Commissioner
The capital is Shillong a town laid out with great taste and judgment among the pine woods on the slopes of the Shillong Range which risos to a helght of 6 450 feet above the sea-it was destroyed in the earthquake of 189° and has been rebuilt in a way more likely to withstand the shocks of earthonake

Chief Commessioner Sir Archdale Earle KOIB

And Commessioner Air Arinnage Ebrie R 0 1 B appointed 1st April 1912 Personal Asti R C R (uraming Chief Secretary B C Allen Second Secretary A W Botham Secretary Public Works Department, F O Octtel Officiating Inspector General of Registration —

Judges F J Jeffries J F Graham Director of Public Instruction J R Cunningham, Inspector General of I store Lt -Col A E Woods Sandary Commissioner Major T C M Young M. B 1,11 4

Comptroller Financial Department W 4 Caraduff

Political Agent in Manipur Lt-Col H W G Cole car

or concluent and hemembrancer of Legal Afairs — Widal Majid B k Director of Land Records and Agriculture & R Edwards B & 1 C S Supervisingen and hemembrancer of Legal

Superintendent, Archaeological Survey Exiters Circle D B 9000ner

Chief Inspector of Factories R P Adams

### LEGISLATIVE COURCIL

F O Ocrtel, W J Reid Lieut Colonel D Herbert J R Cumbingham wa JF Graham Abdul Majid A. B. Hawkins Raja Prabhat (handra Barua, Ramani Moban Das, Srijut Padmarath Barus Col H. E. Banatvala B. C. Allen A. W. Botham

# Eleded Members

Mr. C. L. Pringle Maulvi Salyti Abdul Majid Khan Bahadur Maulvi Salyti Abdul Majid Khan Bahadur Maulvi Salyti Abdul Maha Pasuldar Raj Bahadur, Mr Tarun Ram Phukan, Mr Kamini Kuwar Chanda, Ma Muhan Das Rai Baha uri Mr A L. Pisyfalr Mr H Miller, Mr H B Fox

# Chief Commissioners of Assem

CHIEF COMMISSIONERS OF MASSIN	
Colonel R. H. Keatings CBL,	1874
Sir S C Başlev K C S 1	1878
C A Elliot 0 8 1	1881
W E Ward	1886
Dennis Pitzpatrick O s.i	1683
J Westland, CSJ	1887
Dennis Pitzpatrick 0 s.1 J Westland, C S.1 J W Quinton C S 1	1389
Brig General Sir H. Collett BCB	1891
W E Ward Call	1891
C J Lyall c 6.1 H J S Cotton C.S L	1894
H J S Cotton C.S.L.	1998
J B Fuller olls.	1900
J B Fuller 0.1 k	1902
C W Bolton, C.S.I.	1908
NoteThe Chief Commissionership of	Amanı
was revived 1st April, 1918.	
Bir Archdale Harie, K C.L.B.	1912

# Baluchistan.

Bajuchistan is an oblong stretch of country occupying the extreme western corner of the indian Empire. It is divided into three main divisions (1) British Baluchistan with an area of 9 478 square miles consisting of fracts as signed to the British Government by treats in 1879. (2) Agency Territories with an area of 44,345 square miles composed of tracts which from time to time been acquired by lease nave from time to time been acquired by lease of otherwise brought under control and placed directly under Bittleh officers and (3) the Native States of Kaiat and Las Bela with an area of 73 434 square miles and las Bela with an area of 134 638 square miles and according to the census of 1911 it contains 34 703 inhabitants divided roughly half and half between the administered districts and States

The country which is almost wholly moun tainous lies on a great belt of ranges connecting the Safed Aoh with the hill system of Southern lersia. It thus forms a watershed the drain age of which enters the Indus on the east and the Arabian Sea on the south while on the north and west it makes its way to the inland north and west it makes its way to the inland takes which form so large a feature of tentral take. Yugged barren sur burnt mountain rent by high channes and gonges abrunate with and deserts and stony plains the practice of the colour of which i a monotonous sight. But this is redeemed in places by level valleys. of considerable size in which irrigation enables much cultivation to be carried on and rich crops of all kinds to be raised

The political connection of the British Gov. ernment with Baluchistan communeed from the outbreak of the First Afghan War in 1889 it was traversed by the Army of the Indus and was afterwards occupied until 1842 to and was anterwards occupied until 1842 to protect the British lines of communication. The districts of Kachi Quetta and Masting were handed over to the Amir of Algharistan and Political Officers were appointed to admi-uister the country. At the close of the First Afghan War the British withdrew and these districts were assigned to the Khan of Kalat The founder of the Baluchistan Province as it now exists was Bir Roberts Sandeman who n now exists was bit Roberts Sandeman who broke down the close border system and weld d the Baluch and Brahul Chiefs into a close con federacy in the Afghan War of 1879 Pishin 8tbi Harnai and That Chotlali were banded over by Yakuh Khan to the British Government and retained at Sir Bobert Sandeman's streouous insistence

## Industries

Baluchistan lies outside the mensoon area and its rainfall is exceedingly irregular and exacty Shabrig which has the heaviest rainfall, records no more than 112 inches in a year in the highlands few places receive more than 10 inches and in the plains the average minifall is about 5 inches decreasing in some cases to 3. The majority of the indigenous population are dependent for their livelihood. on agriculture provision and care of animals and transport. The Aighen and the Baluch as a rule, cultivate their own lands. The Brahule dislike agriculture and prefer a pastoral life. Previous to the advent of the British life and

property were so insecure that the cultivator' was fortunate if he reaped his harvest. The cetabilabment of prace and security has been accompanied by a marked extension of agri culture which accounts for the increase in the numbers of the purely cultivating classes. The Mekran Coast is famous for the quantity and quality of its fish and the industry is con stantly developing. Fruit is extensively grown in the highlands and the export is increasing.

Education is imparted in 15" schools with 1 129 scholars The mineral wealth of the Province is believed to be considerable, but cannot be exploited until railways are developed Coal is mined at khost on the Sind Pishin railway and in the Bolan Pass the output in 1914 being 8,2 4 tons Chromite is extracted in the Quetta Pishin District Lime stone is quarried in small quantities

#### Administration

The head of the local administration is the officer style! Agent to the Governor General and Chief Commissioner Next in rank comes the Revenue Commissioner who advises the Agent to the Lovernor General in financial matters and generally controls the revenue administration The keynote of administra tion in Laluchistan is self government by the tribismen as Lir as may be by means of their Jirgas or Cumcils of Elders along the ancient customary lines of tribal law the essence of which is the satisfaction of the aggreeved and the actilement of the feud not retailation on the aggressor of the vindictive punishment of a crime. The district levies which number 2 300 odd play an mobilities but invaluable part in the work of the Civil Administration not only in watch and ward and the investi gation of crime but also in the carrying of the gation of crime but also in the carrying of the mails the serving of processes and other mis-cellan out work. In addition to these dis-trict levice there are three irregular Corps in the Troyline the Zhob Militia (formerly known as the Zhob Levy Corps, the Makran Levy Corps and the Chagal Levy Corps. Their combined strength in the latest returns was does not pay for itself and receives large sub-sides from the Imperial Government. The receipts and expenditure roughly balance such other at 203 lakhas

# ADMINISTRATION

Agent to the Covernor-General and Chief Commissioner The Houble Lieut. Colonel Bir John Barrany KCJE CEJ LA Revenue and Judicial Commissioner, Lieut

Secretary Public Works I Colonel H S Murray H.E

First Assutant to the Agent to the Governor

First Assistant to the Agent to the Governor General and Secretary to the Chief Commus somer Bray Denys do S 10.8 Second Assistant to the Governor-General A V L Cater 10.8. Polithed Agent, Zhob Jacob Major, A. L., L. Assistant Political Agent, Zhob, Cayt T G. M. Harris.

Political Agent, Kalat and Bolon Pass, Dow, Lieux Colonel A. B. C.I.R., LA.

Assistant Political Agent Latat and Bolan Pass | Molival C H Gidney I c. 8

Assistant for Mebran to the Political Agent in Kalat and ex-officio Commandant, Mebran Lovy Corps Captain S Williams 1 A

Political Agent and Deputy Commissioner Quella and Pishin Lient Colonel A McCons ghey die

Amestant Political Agent and Assistant (om missioner Quetta and Pushin Major H B Sh. John C.I.E., I.A.

Political Agent, Chaoas Major W G Hutchinson

Political Agent and Deputy Commusione Sibi Major F McConaghev

Assistant Polytical Agent Sibn Mulor C Bruce LA

Polstreal Agent, Lorales, Vajor 1 D G Ramago

Assistant Political Agent Lordon Variant

Rendency Surgeon and thief Medical Offices Duke, Lieut. Colonel A. L. IXB Cvvil Surgeon Quetta Major W \ Anjerson

# ANDAMAN AND NICOBAR ISLANDS.

This is a group of islands in the Bay of Bengal of which the headquarters are at Port Bialr by sea 780 miles from Calcutta 740 miles from Madres and 850 miles from Hangoon with which ports there is regular communication

The land area of the islands under the ad ministration is \$143 square miles namely 2,506 square miles in the Andamans and 655 square miles in the Nicobara | The total popul istice of the islands was returned in the census of 1911 as 26 459. The Islands are administrated by the Chief Commissioner of the Andaman and Nicobar Islands who is also the Super Intendent of the Penal Settlement. The penal settlement, which was established in 1808, is the most important in India.

Superintendent of Port Blau Lieut, Col M W Douglas, CLE

of Jum. Major Supermiendent tode and Sensor Medical Officer H. MUITAY I.M B.

# COORG

Coorg is a small petty Province in Southern India west of the State of Mysore Its area is 1582 square miles and its population 174,976. British Government during the war with Sultan Tipu of Beringapatam. In May 1834 owing to misgovernment it was annexed The Province in directly under the Gevernment of India and administered by the Chief Commissioner of Coorg who is the Besident in Mysoro with the August II. with his headquarters at Bangalore are combined all the functions of a local gov ernment and a High Court. The Secretariat is at Bangalore where the Assistant Recident is styled accretary to the Chici Commissioner of Coors In Coors his chief authority is the Commissioner whose headquarters are at Mer cars and whose duties extend to every branch of the administration. The chief wealth of the country is agriculture and especially the growth of collect Although owing to over progrown of conce although owing to over pro-duction and insect pests roffer to longer com-mands the profits it once enjoyed the Indian output still holds its own against the savers competition of Brazil The bulk of the out-put is exported to France

Resident and Chief Commissioner Coorg

### AJMER MERWARA.

Aimer Merwara is an isolated British Province in Rejputana The Agent to the Gov ernor-General in Rajeutana administors it as chief Commissioner The Province consists of two small separate districts. Aimer and Merwara with a total area of 2 711 square miles and a population of 501 395 At the close of the Pindari war Daulat Rao Scindla by a treaty dated June 25 1818 ceded the district to the British Fifts five per cent of the population are supported by agriculture, the industrial population being principally employed in the cotton and other industries. The principal crops are make, millet bariev cotton oil seeds and wheat

Agent to the Governor General in Rajputana Communication and District Superintendent of and Chaf Communication of Amer Merwara Military Police Captain H W Rowley 1500 The Hon Lieut Col. Sir E G Colvin & C.S.

# Aden

Adea was the first new territory added to the under British rule has retained its ancient Empire after the accession of Queen Victoria prestige as a fortress of impremable strength, its acquisition in 18.00 was the outcome of an invulnerable by see and by land dominating outrage committed by the local Fadhi chief the entrance to the Red Sea and valuable to upon the passengers and crew of a British bug galow wrecked in the neighbourhood. Varicus acts of treachery supersened during the negoti ations regardly g the bungalow outrage and Aden was captured by a force sont by the Bombas dovernment under Major Lailli. The act has been described as one of the copportune poli tical strokes which have given geographical onthuity to British processions scattered over the world

Aden is an e tinct volcano five miles long and three broad jutting out to sea much as Cibraltar loes having a circumf rence of about 15 miles and connected with the mainland by a carro? sthmus of flut ground. This is nearly covered at one part at high spring tides but the causeway. one part at high spring tides out the causeway and aqueduct are always above though some times only jut above water. The highest peak on the wall it presignous tills that our The highest i iounds the cll cratci which constitutes Aden is 17% feet above sea level. Rugged sours with

Attached to the settlement of Adon are the islands of Perim an 1 land of 5 square mile extent in the Straits of Dab el Mandels in the ntrance to the Arabian Sea Solotra island at the entrance to the Gulf of Aden in the Ara blatt Sea ac juired by treaty in 1886 ard 1 393 miles in extent and the five small huma Muria I lands c ted by the Imam of Mastat in 1854 for the purpose of landing the lal Sea cable and otherwise valuable only for the guano deposit found upon them. They are off the Arabian coast about two thirds of the way from Adea to Maskat The whole extent of the 4den settlement including Aden Little Aden Shuikh Otheran and Perim is approximately 80 miles The 1911 census shows Aden with Little Aden Shaikh Othman and Perin, to have a population of 46 16". The population of P run is a matter of a few hundreds largely dependent on the Coal Depot maintained there by a commercial firm That of Sckotra is 12 000) mostly pastoral and nigratory inland fishing on the coast

### Strategic Importance

its owners as a commercial emporium a port of call and a cable centre. The harbour extends a miles from east to west and 4 from north to south and is divided into two bays by a splt of land The depth of water in the western bay is from 3 to 4 fathoms across the entrance 44 to athors with 10 to 12 fathors 2 miles outside of his method is said and mud. There are several islands in the inner bay. Strategic control of the Red Soa was rendered complete by the annexation of Perim and Sokotra which may both be regard d as outposts of Aden and are under the political jurisdiction of the Resident Line Arab chiefs of the hinterland of Arabia.

are nearly all stipendlaries of the British Gov crument Colonel Wahab and Vir G H Fitzmaurice of the Constantinople Embassy were appointed in 1902 as Commissioners to deliminte the frontier between Turkish Arabia and the British protectorate around Aden 1.7% feet above was a constructed to the click between radical the craft r. A great gap has been rent by some vehands disturtance in the sa surface of the craft r. A great gap has been rent by some vehands disturtance in the same of the river bank of the river bank of the river bank the exacter limit of the magnificent burbour. The pennsula of little Aden adds in to Aden proper was great desert. The area left within the British Proportional to the little Aden and the adjoining tract of Shalkb Othman 30 square in less in the left was subsequently purchased when in the little was subsequently purchased when in 1882 it was found nece sare to make provident for an over flowing population.

Attached to the settlement of Aden are the from the Turks in November 1914. A said the latter that the settlement of Aden are the from the Turks in November 1914. A said terminal part per limits of the Red Sea from the Turks in November 1914. A said terminal part per limits of the latter to be be to be light. convention was signed in 1915 settling details, terium and small British garrison used to be maintained at Dibala v high is 7 700 feet high. but the garrison was withdrawn in 1906 Lord Morley vplaining the step as being in accord ance with the policy stated in the House of I ords in 1903—that His Malesty's Government had never desired to interfere with the internal and domestic affairs of the tribes on the British ende of the boundary but had throughout made it plain that they would not assent to the interference of any other Power with those effairs.

## British Policy

There has been much criticism of a policy under which Aden has failed to advance with the same progressive strides which have marked the development of other British dependencies It is said that the former Persian possessors of Aden built its wonderful water tanks, and the Araba made an aqueduct 20 miles long while the Brirish have done nothing except mount guns to protect their coal yards. Trade it is argued flourishes because this is a natural Aden first importance is as a naval and importance appet was ably discussed by colonel A M attention its needs get from Government Lord Hurray in his Imperial Outposts He Roberts, writing on this point a few years ago points out that Aden is not a naval base in the same sense that Gibraltar Malta and Hong Kong make use of a dependency like Aden for selfish purposes of political necessity without attempt made but a point dappura a rendervous In 1839 because of its usefulness as a harbour of ment to the neighbouring native tribes, esperefuge for British ships and from a strategist s clally when those tribes are living under site
point of view this is to primary purpose and the aggis of the British Crown The Persians, the
retion Tests of its forts and garrison Aden I Tests and even the Arabs did more for adea is

their time than we have done during our seventy; Aden police force numbers alightly over 200 years occupation Adeu has always suffered under the disadvantage of being an appearage of the Bombay Presidency, with which it has neither geographical, racial not political affinity Probably the best solution with of the matter would be to hand over the place to the Colonial Office relieving the Government of Bombay of a charge which is only looked upon as an incubus. Some important steps have been taken in the past few years to satisfy the commercial needs of the port

The trade of Aden has developed immensely The trade of Acen has developed immensely since British acquisition in 1839, largely through the Government of India declaring it a free port in 1850 almos when it has attracted much of the valuable trade between Arabia and Africa formerly monopolised by the Red Sea ports of Hodelda and Mokha The opening of the Sour. Canal was also responsible for a large Increase of trade through Aden into the interior The total imports by sea in the last official y ar gress awry amounted to 13 756 964 by land \$170,213 treasure, 1450 305 avected by (1913 14) before the war set the course of prowere £3 267,243 by land, £140 159 treasure, £450 3015 exports by sea were £3 267,243 by land, £140 159 treasure £741 687 These staristics are exclusive of Government stores and treasure

The language of the settlem at is Arabic but coverar other Asiatic tongues are spoken. The population is chiefly returned as Arabs and Shalkins. The Somalis from the African coast and Arabs do the bard labour of the port. So far as the settlement is concerned. products whatever with the important excep-tion of salt The crops of the tribal low country adioining are jowar seesamm a little cotton insider, a bastard saffron and a little indigo in the hills, wheat, madder fruit coffee and a considerable quantity of wax and honey are obtained. The water supply forms the most important problem. Water is drawn from four sources wells, aqueducts, tanks or reservoirs. and condensers

#### Administration.

The Aden settlement is subject politically to After Auca necessitate to suspect pointing to the Government of Bombay and its administra-tion is conducted by a Resident who is assisted by four Assistants. The Resident is also mill tary Commandant and is usually an officer selected from the Indian army as are his assis tants. The Resident has jurisdiction as a Judge of the Vice-Admiralty Court in matters connected with slave trading his court being called the Colonial Court of the Admiralty The laws in force in the settlement are generally speaking those in force in the Bombay Presidency supplemented on certain points by special regula of the port is under the control of a Board of Trustees formed in 1888 The principal business of the Port Trust has been the deepening of the barbour so as to allow vessels of all sites to enter and leave at all states of the tide. The

men There are hospitals and dispensaries in both Aden and Perlin in addition to the military institutions of this character The garrison comprises a troop of engineers, three companies of garrison artillery one battalion of British infantry two companies of sappers and minera and one Indian regiment Detachments from the last named are maintained at Perim and Shaikh Othman respectively

The average temperature of the station is 8, degrees in the shade the mean range being from 76 in January to 98 in June with variations up to 102. The inits between the monsoons in May and September are very oppressive. Consequently long resi dence impairs the faculties and undermines the constitution of Europeans and even Indians suffer from the effects of too long an abode in the settlement and troops are not posted in the station for long periods being usually sent there one year and relieved the next. But Aden is exceptionally free from infectious diseases and epidemics and the absence of vegetation the dryness of the soll and the purity of the drinking water constitute efficient agreements against many maladies common to tropical countries The annual rainfall varies from 1 inch to 81 inches with an irregular average of 3 inches

At the outset of the war the Turks "tublished thousalves on the Arabian shore of the straits of Bah-el Mand b. They were driven off of Bahel Hand b They were driven off their fort captured and then guns taken by a fore land d from a British warship But la July last year a mixed force of Turks and Araba advanced against the 4den bettlem nt News was made known in India by a Pruter telegram adjoining are jowar seesamum a little cotton of July 9th which said that the Turks and madden, a bastard safron and a little indigo. Arabs threa ned Lakej that at the request of the buitan of Labej a force was sent for the protection of his capital and that the supporting for a was no bast with water and transport difficulties that it was decided to retire and the whole force withdrew to Aden the enemy declining to follow Subsequen tly came an official intimation that the Sultan of Lake who had bein gri vously wounded in a fight against the raiding force had of did in Adin whither he had been taken for surgical treatment. The Government of India announced on July 22nd that on the morning of the 21st instant a force from the Aden Garrison attacked the position taken by the Purks a few mil 8 outside the settlement and drove them from it the pursuit being continued for a distance of five miles

> The following are the principal officers of the present administration

> Polstreal Resident, Brigg General C H K Price, CB D.80

sentant Residents Lieut Colonel M. T. Elderton (Perim) Lieut.-Colonel H. F. Jacob Lieut Colonel J. E. Condon (on furlough) (aptain B. Relliy Lieut Colonel Assistant Residents W Beak Cupt A H E Mosse

The area enclosed within the boundaries of posite direction. In 1881 the State of Mysore India is 1 775 168 square miles, with a population of 315,132 537 of people—nearly one fifth instruction that the traditions of Native rule of the human race. But of this total a very were almost forgotten was restored to the large part is not under British Administration old Hindu ruling house. In 1911 the Maharajah The area covered in the Native States is 675 267 The area covered in the Native States is 0.0 2001 aquare miles with a population of seventy millions. The Native States embrace the widest variety of country and jurisdiction They vary in site from petty states like Lawe, in Rajputana with an area of 19 square miles and the Simia IIII States which are little more sou the some his states which are little more than small holdings, to States like Hyderabad, as large as Italy, with a population of thirteen milions. They include the inhospitable regions of Western Rajputana, Baroda in agricultural wealth and kashmir one of the must favoured spots on the lace of the globe In the case of 176 States control is exercised by the Government of India and of about 500 by the Provincial Governments. The four principal states Hyderabad Mysore Baroda and Kashmir are in direct relation with the Government of India The other States are grouped under the direction of an Agent to the Governor-General as for Rajputana and Cen trai India in one case the Provincial Govern ment has been compelled to group its States those of Kathlawar under an Agrat to the Governor

### Relations with the Paramount Power

So diverse are the conditions under which the Native States were established and came have proposed to the Native States were established and came the political relation with the Government of India that it is impossible even to summarish them. But broadly it may be said that as the British boundarise expanded, the state is seriously throatened. Finally they particularly the proposed in their posseding and the major were confirmed in their posseding. the Native States were established and came into political relation with the Government of and the rulers were confirmed in their posses To this general policy however there was, for a brief period an important departure During the regime of Lord Palliousie the Government introduced what was called annexation through lapse. That is to say when there was no direct heir the Government when there was no direct near the coverdification considered whether public interests would be secured by granting the right of adoption Through the application of this policy the states of Satara and of Nagpur fell in to the East India Company and the kingdom of Oudh was annexed breause of the gross misgovern ment of its rulers. Then came the Mutloy It was followed by the transference of the doubtlone of the East India Company to the Crown, and an irrevocable declaration of policy toward the Native States In the historic toward the Native States In the historic Proclamation of Queen Victoria it was set out recummation of Queen victoria it was set out that We desire no extension of our present territorial possessions and while we will per mit no aggression on our dominions or our rights to be attempted with impunity we shall allow no encroachnesis on those of others. We shall respect the rights dignity and honour of the Native Princes as our own and we of the Native Princes as our own and we than for police, or display or for co-operation desire that they as well as our own subject, with the imperial Government, their military should enjoy that prosperity and that social advancement which can only be secured by prescribed by the Paramount Power Although internal peace and good government." Since the issue of that proclamation there has been British Government will have no manner of no entroachment on the area under Native mile by the Government of India. On the or servants, with respect to whom the Kahacontrary, the movement has been in the op-

were almost forgotten was restored to the old Hindu ruling house. In 1911 the Maharajah of Benares, the great taludate of Oudh was granted ruling powers over his extensive powers. sections On many occasions the Government of India has had to intervene, to prevent gross misgovernment, or to carry on the administration during a long minority but always with the undeviating intention of res but for intervention passed Almost all states possess the right of adoption in default of heirs.

Rights of Native States Rights of Native States
The rights and obligations of the Native
States are thus described by the Imperial
Grantteer The Chiefs have without error
tion cained protection against dangers from
without and a guarantee that the protector
will respect their rights as rulers. The Para
mount Power acts for them in relation to foreign
Powers and other Native States. The in habitants of the Native States are the subjects of their rulers, and except in case of personal jurisdiction over British subjects these rulem and their subjects are free from the control of the laws of Irilish India. Criminals es caping to a Native State must be handed over to it by its authorities—they cannot be arrested by the police of British India without the permission of the ruler of the State. The Native Princes have therefore a suzerain power which power obtains by its diplomatic action or by thus secure a share in the continere the rad-ways, the ports and the markets of British India. Except in mer cases applied to man time states have freedom of trade with British India although they levy their own customs and their subjects are admitted to most of the public offices of the British Government.

Obligations of Native States.

On the other hand the Native States are under an obligation not to erter into relations with foreign nations or other states authority of their rulers has no existence outside their teritories Their subjects outside their dominions become for all intents and purposes British subjects. Where foreign interests are concerned the Paramount Power interests are concerned the Paramount rower must act so that no just cause of offence is given by its subordinate allies All Native States alike are under an obligation to refet to the British overy question of dispute with other states. Inaamuch as the Native State have no use for a military establishment other than for police, or display or for oc-operation with the imperial Government, their military forces their equipment and armanent are prescribed by the Paramount Power Although old and unaltered treaties declare that the

in a Native Government as may threaten any part of the country with anarchy or disturb of a ratio relate when there shall on runner are reason to do so. Of this necessity the flow sernor General in Council is the sale judge subject to the control of Parliament. Where subject to the control of Parlament the law of British India confers jurisdiction over British subjects or other specified persons in foreign territory that power is exercised by the British courts with possess it. The subjects of European Powers and the United States are on the same footing Where can tonments exist in Valles to ritor jurisdi-tion both over the cantonment and the civil station is exercised by the suscessin power

#### Political Officers

The powers of the Entish Government are exercised through Political Officers who as a rule reside in the state themselve. In the larger states the Government is represented by a Resident, in groups of states by an Agent to the Governor General assisted to ireal Residents or Political Agents. There officers form the sole channel of communication between the Native States and the Government of India and its Foreign Department with the officials of British India and with other hative States. They are expected to advise and assist the Ruling thurs in any administrative or other matters on which they may be consulted Pollitical Agents are similarly employed in the larger States under the Provincial Governments but in the petty states ecattered over British India the duties of the Agent are usually entrusted to the Collector or Commissioner in whose district they lie All questions relating to the Native States are under the special supervision of the Su preme Government, and in the personal charge of the Governor General A proposal has been made by the Government of India that in view of the increasing importance of the Native States an additional Secretary styled the Political Secretary shall be appointed who shall be in special charge, under the Viceroy

colleges for the purpose These are now established at Aimere Hajkot Indore and Labore The Imperial (adet Corps whose head quarters are at Debra Dun Imparts military training to the scions of the ruling chiefs and

have sudorsed the principle which Lord Can noble families. The spread of higher educating set forth in his minute of 1860 that the ition has placed at the disposal of the Native Government of India is not precluded from States the products of the Universities in stopping in to set right such serious abuses there was there has been a steady rise in the character of the administration of the Vative States approximating more closely to the British ideal Most of the Native States have ance, nor from assuming temporary charge British ideal. Most of the Native States have of a Native State when there shall be sufficient take come forward to bear their share in the burden of Imperial defence Following on the pontaneous offer of military a sistance when war with Russia appeared to be incui table over the P nileh incident in 1885 the states have raised a portion of their forces up to the faudard of the Native troop in the Indian Arms The are termed Imperial Service Irox p they belong to the states they are offi ered by Indians but they are in special by a regular cadre of Lritish officers under the heneral direction of the Inspector General of Imperial Service Troop Their numbers are approximately 2: 000 men their armament is the same as that of the Indian arms and they have done good service often under their own thick on the Irontur and in thomas and in bomailland. Secure in the In this and in boundfland secure in the knowl dge that the Paramount Power will respect their rights and privilegs the Ruling this have lot the su picion which was com-mon which the position was less a ured and the visits of the Prince of Wales in 1975 of th Prince and Princes of Wales in 1960 88 and of the King and Queen in 1961 12 have tended to well it devotion of the great feudatories to the term. The improvement in the to the trown. The improvement in the atandard of native rule has also permitted the covernment of India largely to reduce the degree of interference in the internal ablairs of the Natice States. The new police was authoritated by land down by lord Mints the then Vector in a speech at Udapur in 1969. when he suid -

Our policy is with ran exception one of non interference in the internal affair of the Nativeshtate But in guaranteein their in ternal independence and in undertaking their protection against external agencemen it natu rally follows that the Imperial desermment has assumed a certain degree of responsibility for the general soundness of their administration and could not consent to incur the reproach of being an indirect instrument of instrule of these questions

Closer Partnership

Events have tended gradually to draw the safeguard the interests of the cummunity as Paramount Power and the Native States into a whole as well as those of the paramount colour harmony Special care has been as the safeguard the interests of the cummunity as Paramount Power and the Native States into a whole as well as those of the paramount colour harmony Special care has been dry power sub as rankwas telegraphs and other voted to the education of the sons of Ruling services of an Imperial character list the Chiefs, first by the employment of the superme for comment to alternate by the establishment of special the Piste is one of successive the proposed. tion stone of the whole system is the recognition of identity of interests between the Imperial Government and Durbars and the minimum of interference with the latter in their own affaire.

### HYDERABAD

Hyderabad the premier Native State in India is in the Decean. Its area is 82 698 square miles and population 13 574 678. The general physical characteristics of the State are an elevated.

producing wheat and cotton. To the South East is the granatic region of the Telugus and producing rice

HISTORY -- In pre-historic times Hyderabad cal characteristics of the outer are and ethnologicam within the great Drawillan zone. The cally by the Manjra and Godaveri rivers. To date of the Aryan conquest is obsoure, but the the North-West is the Trappean region, peopled dominions of Asoka 272 to 231 BC embraced by Marsthas a country of black cotton soil it is northern and western portions of the State Three great Hindu dynasties followed, those of Council, which is composed of the Minister as the Pallavas Chalukvas and Yadavas In President and the Assistant Ministers as 1294 the irruption of the Mahomedans under Members. Business disposed of by the Council Als ud din Khilji commenced, and thencefor ward till the time or Aurungzebe the history of the urviving Hindu kingdom of the South and ifter the fall of Vijavanagar with each other ammuniche stamped out the remains of Maliomedan Independence of the South and set up his theorest Asst Jah of furturnan descrit a licrop or Subhadar of the Decem in 1710. In the chaos which followed the death of Au rungs be. Asai Juli had no difficulty in estab thing and maintaining his Independence and thus founded the present House During the straight between the British and the breach for me tery in India the Vizam finally threw in his lot with the Britt b and unshaken even by the excitement of the muting has been so studied to his engag ments as to each the title of Our Faithful Ally The present ruler is H H Sir, Faithful Ally

1 man Ali Khan Bahadur Fatels Jung Gubl 1 HR BERARS — A most important count in the laters of the State occurred in November we have do not product to the Pritish Covernment of the British benefits had been admontant to the British benefits had been admontant by the benefit had been administrated by the British benefits had been administrated by the Br and to time to the British of Armarat to pro-vide for the maintenance of the Hydradian contingent a body of trops k pt by the Pri th Government for the Nizanis use the sur-ther revenues if any being payably to the Nizam In course of time II had become apparent that the maintenance of the Hyders bad contingent on its old footing as a separate fice was nexpedient and unnece at and that similarly the administration of lorar a a separate unit was sure costly while from the point of view of the Nixam the precarious and fluctuating nature of the surplies was finen-cially inconvenient. The agreement of 190-re affirmed. His Highness so resigney over I erar which instead of being indefinitely

assigned to the Government of Indla was leased in perpetuity to an annual rental of 25 lakbs (nearly £16" 000) the rental is for the present charged with an annual d bit towards the repayment of loans made by the Govern ment of India. The Government of India were at the same time authorized to adminitive berar in such manner as they might think desirable and to redistribute redu e re-organi e and control the Hyderabad Contingent due or wiston below unde as atipulated in the provision bring made as stipulated in treaty of 1868 for the protection of Ills High ness dominions in secondance with this agreement the Contingent censed in March 1909 to be a separate force and was re-organised and redistributed as an integral part of the indian Army and in October 1908 Berar was transferred to the admir stration of the Chief Commissioner of the Central Provinces.

ADMINISTRATION—The Nizam is supreme in the State and exercises the power of life and if all over his subjects. For convenience in administration the Minister is the chief control ling authority in the State: To assist him there and 24 special schools in are five Assistant Ministers, Financial, Judicial, School in the Dominions Milliary Public Works and Ecclesiastical All December of Importance are referred to the A.F. Pinhey K.C.S.L.OFK.

is immediately reported to the Nisam ward the time of Aurungzebe the history of actual work of the departments is done by alk the archive discovery of struggles against Secretaries. Below the Secretaries divided into Subhas or Divisions, Districts and lalukas. Fifteen District 86 Taluk and nine Divisional Beards are at work in the District A Lexislative Council consisting of 21 members of whom 13 are official and 8 non official, is responsible for making laws. The State maintains its own currency the Osmania Sicca rupes with a suborlinate coinage. In 1904 an improved Mahbubla rupce was struck and this exchanges with the limitsh rupee at the ratio of 115 or 116 to 100 It has its own postal system and stamps for lift rnal purposes. It maintains its own Arms comprising 19 97 troops of which 6 064 are classed as kegular and 1 533 as Irregular There are in addition 6901 mperla, Service Troops.

hintner -After many violatudes financial position of the State is trong current budget provides for a revenue of Rs. 521 lakh and a service expenditure of Ps 4"8 lakhs. 110 In tory of the state occurred in normalization of Berary The principal revenue heads are Land Revenue we hand do memorials to the Fritish (overs 2 9 lakks Burn rent (land leased in perpetuity

tomers watern of land tempre is ryptwari how the gross product it is universitie to say what propertuon the land revenue hears to it but it is collected without difficult. The principal collected without difficult. The principal mod crops are milled and rice the staple money crops often which is grown extensively on the black cotton solls, and oil seeds. The State is rich in min rais. The great Warangal coal measures are worked at Singareni but the mustures are worked at empartment to the con-critists review the historic gulf and damond mines have met with very qualified encoses, the manufacturing inducties are consequent in the growth of cotton and comprise three spinning and weaving mills and ginning and

COMMUNICATIONS -One hundred and thirty seven miles of the broad Lange line from Bombay to Madras traverse the State At Wadl on this section the troad pauge system of the tims set in the thought and south East toward Dewards a trial length of 310 miles from the there are the meter gaute Godaveri Kallway runs North West to Manmad on the Great Indian Ludneula Company a system

Great Indian I tilingula (Umptur's existem 5/11 miles of Broad Lauge and Sh1 of metre in the State The Barsi light Railway owns a short extension to Later The reads are generally interior.

FOULATION—The State maintains two Colleges The Nizam College at Hyderabad (first grade) is affiliated to the Madras University. The Ori nata College at Hyderabad preparal students for the local Mouled and Munshi examinations. There are 28 high schools 63 mildle schools, 117 primary schools and 24 special schools including a Medical School to the Dominious Britan Resident—The Hom. Lieut-Col. Sir A. F. Pilley K.C. S.L. O. F.

#### MYSORE

character the hill country (the Mahad) on the west and the wide-spreading valleys and plains (the Mahad) on the east. The State has an area of 29 661 square miles excluding that of the (1vil and Military Station of Bangalore and a population of 5703 559 of whom over 92 per cent, ar Hindus Kanarese is the distinctive language of the State History —The ancient history of the country is varied and interesting Tradition connects the table-land of Mysore with many a legend evaluation in the great Indian roits, the Eagus-

the table-hand of Mysore with many a legend enahrined in the great Indian epies, the Ranna-yana and the Mahabharata. Coming down to historical times the north-eastern portion of the country formed part of Asoka's Empire in the third century B C Mysore then came moder the rule of the Andhra dynasty. From about the third to the eleventh century A. D. Mysore was ruled by three dynasties the north western portion by the Kadambas the eastern and northern portions by the Pallavas and the central and southern portions by the Gangas. In the eleventh century Mysore formed part of the Chola dominion but the Cholas were or the Choix and sometime the Choix were driven out early in the twelfill century by the Hoyada, an Indigenous dvasty with its capital at Halebid. The Hoyada power came to an end in the early part of the fourteenth century Mysore was next connected with the Vijayanagar mysore was next connected with the vijayanagar Rampire. At the end of the fourteenth century Mysors became associated with the present reling dynasty at first tributary to the dominant empire of Vijayanagar the dynasty attained its independence after its downfall in 1566. In the latter part of the eighteenth century the real sovereignty passed into the hands of Haidar All and then his son Tippu Bultan, In 1799 on the fall of Seringapatam the British Government restored the State comprised within its present limits to the ancient dynasty in the person of Maharaja Sri Krishnaraja Wadlyar Bahadur III Owing to the insurrections that broke out in some parts of the country the management was assumed by the British Government in 1831 In 1881 the State was restored to the dynasty in the person of Bri Chanarajemen Wadiyar Bahadur person to Br. Chambrayseror Whotype Banacur under conditions and stipulations isid down in the Instruments of Transfer That ruler with the assistance of Mr. (atterwards Sir) K. Beshadri Iyer K. C.S. I., as Dewsn., brought Mysore to a state of great prosperity He died in 1894 and was succeeded by the present Maharaja Sir Sri Krishnaraja Wadiyar Bahadur C. C.S. I. who was braited to 1908. In November 1998, and the present that the contract of t GCS1 who was installed in 1902. In November 1918, the instrument of Transfer was replaced by a Treaty which indicates more appropriately the relation substitute between the Bettien Government and the Bettie of

Administration —The city of Mysore is Industries and Commorce has been created is the administrative head quarters. His with a view to improve the esting industries Highness the Maharaja is the ultimate authority and to provide expert advice and other facilities in the State and the administration is conducted for the starting of new industries in the State quader his control, by the Dewse and three The manufacturing industries include 12 cotton

The State of Mysore is surrounded on all sides. Hembers of the Council including the Extra by the Madras Presidency except on the north ordinary Member. The Chief Court consisting and north west where it is bounded by the of three Judges is the highest judicial tribunal districts of Dharwar and North Causar, res in the State. A Representative Assembly postively and towards the south west by Coorg Itis naturally divided into two regions of distinct places before them the annual statement of character the hill country (the Mahad) on the results of the State after the part and the redearner of the State after the property of the Stat which representations are heard and considered There is also a Legislative Council consisting of 25 members of whom 12 are officials and 1.1 non-officials eight elected and five nominated The Council has recently been given the pri-tileges of interpellation and discussion of the vileges of interpellation and discussion of the state budget All the important branches of the administration are controlled by separate heads of departments. For administrative purposes the state is divided into 8 districts and subdivided into 68 tabukas each district being under a Deputy Commissioner and District Magistrate and each tabuk under an Amildar and subordinate Magistrate The State main and subordinate magnitized. In State Including 516 in the Imperial Service Regiment (Cavalry) and 480 in the Imperial Service Transport Corps

FINANCE —The cash balance at the begin ning of 1914 15 was Rs 101 lakh. Total receipts during the year were Rs. 278 takhs and total disburstments Rs. 313 lakhs. The principal revenue heads are Land Revenue Rs. 103 lakhe revenue heads are Land Revenue its. 103 faking Mining Royalty and Leases Re 21 lakhe Forest revenue Re 1 lakhe Excise Re 50 lakhe Stamps Re 11 lakhe Excise Re 50 lakhe Rai Samps Re 11 lakhe Rai Re 13 lakhe and Electric power and light Re 73 lakhe Mysore pays an annual subsidy of 26 lakhe to the British dog rement

ECONOMIC CONFERENCES -The Mysore Econo mic conference was organized in June 1911 with the object of creating and keeping alive public interest in matters connected with the economic progress of the State by a frequent interchange of clews and discussions among those compe-tent to deal with them and in order to associate men of enlightenment public spirited citizens prominent agriculturists, merchants and others with the officers of Government in such deli berations The Conference meets annually at Mysore during the festivities in connection with His Highness the Maharajas birthday It has three Central Committees dealing with questions connected with Agriculture Education and Industries and Commerce and District Committees in the several districts.

AGRICOTATINE—Nearly three fourths of the population are employed in agriculture and the general system of land tenure is Ryctwari The principal food crops are ragi, rice, jola, millets gram and sugarcane and the older fibres are cotton and san-hemp Over 28 000 acres are under mulberry the silk industry being the most profitable in Mysore next to gold mining. The Department of Agriculture which was recently reorganised on a large scale is popularising agriculture on adentific lines by means of demonstrations, investigations and experimente Industries

ginning mills, 8 cotton presses 2 cotton mills, Saik flatures and 2 wootlen mills. There are also 4 oil mills, 11 rice mills 9 sugar mills 4 brick use 4 of mults, 11 rice mults watgar mults 4 brick and thick factories 3 days factories 8 tanneries 15 mrchanical workshops 2 distilleries 1 from and sheel works 1 silk reeling house 4 flour milts 2 bonemeal factories 3 offer curing works 3 dyving factories 2 busileries 1 brewery norks 3 dyling assorred 2 hosperes 1 heavy 1. from and brass founder a 1 lacquer work 2 tands rade works 4 saw mills 1 weaving factory 1 pharmaceutical works 1 soap factory 1 wood curning and 1 lithographic press In addition there are 38 pumping plants for treigntion | sides 30 mines were at work during 1914— 1) for gold 3 for manganese 5 for chrone or for mics and 5 for other minerals. The value () gold produced last year was nearly 324 lakhs.

BARKING —In 1913 a Statie-aided bank inlied the Bank of Mysore was started with the head quarters in Bangalore and agencies at many of the important places in the State Leides this there I one countril 6-operative Bank one District Bank and L. Federal Banking Unlogs and there are now 710 societies working

LONGUMONTONS - The Railway system radiates from Bangalore various branches of Rallway system radiates from Bangalore various branches of the Madras and Southern tahratta Railway running through the State The length of the lines owned by the State and worked under contract by the Company is 411 17 miles of which 9 88 are of broad gauge and the rest mitre gauge A District Board Railway from Bowringpet to Kolar (11 miles) was opened in Parember 1913 A Light Radway from Yela hatka to Chikbellapur and a Tramway from Tarikere to Narasimharajapura have also been opened. Several other projects have been to pared and good progress has been made on some of them

EDUCATION—There are two first grade colleges the Central College at Bangalore and the Maharshas College at Mysore both affillated

to the Madras University. They have been efficiently equipped and organised and Honours courses in Physics and History and Roonemics have been recently instituted. There is also a training College for men and a College for women the Maharani College is Mysor-Primary education has recently been made compulsory in certain selected areas. Schools have been started for imparting education in agricultural commercial and technical subjects There are 4 269 public and 1 754 private edu cational institutions in the State This gives one actual to every 4. 89 square miles of the area. and to every 947 persons of the population of the State

PLACES OF INTEREST - Mysore City the capital is a modern city faid out with fine roads and suburbs. The prominent buildings are the Palace the Chuntrajendra Technical Institute Government House, the Maharaja s College the Maharani s College and the Oriental

Bangalore the largest city in the State and the commercial and manufacturing centre stands on a table land 3 000 fier above the sea and is noted for its salubrious climate and hurdrant gardens. The principal places of interest are the Public Offices the Central college buildings the Museum the Lal Bach the Indian institute of science and the Indian Sanskrit Institute

The hist.ne town of Seringapatam the famous Jog Falls the Kolar cold Fleids the Sivasamudram and Belur Somnathpur and Hulebid with their temples of exquisite graphtee ture are some of the other important places of Interest In the State

Resident and Chief Commissioner of Coorg -The Hon ble Lieut Col. Sir Hugh Delt & C.I. K. CST

Dou an -Sir M. Visvessinya B A K.C.L.E.

## BARODA.

The State of Baroda is altuated partly in Gujarat and partly in Kathaawar. It is divided into four distinct blocks (1) the southern listrict of Navvari near the mouth of the Tapti river and mostly surrounded by British terri-tory (2) central district North of the Nar tory (2) central district North of the mar bads, in which lies Barods, the capital city (8) to the North of Ahmedabad the listrict of had and (4) to the West in the Peninaula of Kathiawar the district of Amrell formed of scattered tracts of land like area of the State is 8 182 square miles the population is over\_two millions of whom over four fifths are Hindus

HISTORY - The bistory of the Baroda State as such dates from the break up of the Mughal lupiro The first Maratha invasion of Gujarat

divided between the Galkwar and the Peshwa In spite of the fact that Damail was one of the Maratha chiefs defeated at Panipat by Ahmed Shall, be continued to add to his territory. He died in 1768 leaving the succession in dia He died in 1768 leaving the succession in dis-pute batween two rival sons. He was suc-ceeded in turn by his sons Sayali Rao I Fattesing Bao Manati Bao and Govind Rao The last died in 1800 and was succeeded by Anand Rao A period of political instability ensued which was ended in 1803 by the help of the Bombay Government, who established the authority of Ansud Rao at Baroda. By a treaty of 180, between the British Go-vernment and Baroda it was arranged inter wernment and Darous it was arranged state after that the foreign policy of the State should be conducted by the British, and that all differences with the Peshwa should be similarly arranged Baroda was a staunch ally of the British during the wars with Baji Bao Peshwa, lupiro The first Maratha invasuom of Gujarat is conducted by the Britah, and that all luck place in 1705 and in this and later differences with the Peshwa should be similarly incursions Plaji Galiwar who may be con stated as the founder of the present ruling arranged Baroda was a staunch ally of the sidered as the founder of the present ruling Britah during the wars with Baji Rao Peshwa humail. Son pland was the Hoad-quarters till 1766 Since 1.29 Plaji regularly levied tribute in Gularat 1.20 Plaji regularly levied tribute 1.20 Plaji r

vernment His successor khande Rao Who reforms He stood by the British in the Multiny He was succeeded by his brother Malhar tiny He was succeeded by his brother Malhar Rao in 1876 Malhar Rao was deposed in 1875 for notorious misconduct and was man I 1876 for nototions have been also be and is the present Gaskwar He was invested with full powers in 1891

ADMINISTRATION - An expulling ec uner) consisting of the principal officers of the State consisting of the principal officers of the State carries on the administration subject to the control of the Maharaja, who is assisted by a Dewan and other officers. A number of departments have been formed which are presided over by officials corresponding to those in British India. The state J divided Into four prants each of which is subdivided into Mahak and Peto Mahak of which there are in all 42. Attempts have for some vere been made to restore village autonoms and village puncha uts have been formed which form part of a scheme for local solf government is a Legi lative Department under a Legal Bemembrancer which is responsible for making laws There is also a Lemslative Council consisting of naminated and elected mer i era A High Court at Buroda possesses jurishiction over the whole of the State and hears all final appear from the lecision of the frigh Court appeals he in certain case to the Maharaju who decides them on the advice of the Huzur Nyaya oat ha The State Army congists of 5 084 Begular forces and 8 800 Trregular forces

FINANCE -In 1913 14 th total receipt of the State were Rs 200 lables and the diller of the State were R. 200 tables and the dilure meets R. 142 taken. The persipal Review heads were —La d Revenue Rs. 117 taken Abbari R. 21 taken. Opnue Rs. 21 taken Railways Rs. 8 taken. Inter t. R. jaken Tribute from other retar. Rs. jaken. Dritt is Carrent was not ribused in 1901.

PRODUCTION AND INDUSTRY —Agriculture and parture support 83 per cent of the people The principal crops are nice wheat grain castor-oil rapewerd, puppy cutton san here.

tobacco sugarcane maizo and garden crops. The greater part of the State is bell on recommend The preserv part of the State is belt on ruches in tenure. The State contains few minerals, except saidstone, which is quarried at Songir and a variety of othe stones which are little worked. There are 31 injustrial or commercial concerns in the State registered under the

th such the Rajpitana Maiwa Railway passes th such the Kadi pract A system of braich line, has been built by the Barnda Durbar in all the four points in addition to which the latti vallet Rollway and the Barnda Godfra Chord line (B B & C I) far through the State. The Railways constructed by the Late are 412 miles in length and 120 miles are under construction Good roads are not numerou

EDUCATION—The Education Department tentrols 1088 institutions of different kinds in 88 of which Fould his taught. The Batoda Department college is affliated to the Boybay Uni craity coneg is aumitted to the 180 to bay this trafty. There are a number or high rines technical section and sections for special classes such as the lungle tribus and nuclean coates. The as the judge trible and unchan corted include in a way pledged to the policy of free and compulsors primary emailed in a way for of rural and traveling libraric. The procent of the population is returned in the cinsus as literate. Total capen con Education is about the 17 lookies.

CAPITAL CITY -Boredo City with the can tonment has a population of 90 345. It contains a public park a number of fine public buildings palace and offices and if he crowded with Hildu temples. The containers is to the North west of the city and is garnsoned by an infantry battalion of the Indian Army. An Impro-ement I rust has been formed to work in Beroda (it) and has set itself an ambitious routemine.

RULER -HIP Highwess Farzand | Khas i Dowlat i Ingil bla Maharaja Sir Savaji Rao Gackwar Sona Khas khul Sagusher Lahadur OGBI Maharaja of Baroda

Resident—Lt Col L. Impey CIF D wan—V P Madhao Rao Ci E. (Refund)

#### KASHMIR

Kashmir (known to Indians as Jammu) lies id stroyed by the Mahamidan lings who first to the east of the Indus and to the west of the appeared in the 12th century. In the reign of Ravi. It is a mountainous country with just a | Sikandar the population became almost entirely Mahomedan Akhar visited the valley three times. Juhangir did much to beautify it but Intersected by valleys of which many are of times. Juhangir did much to beautify it but surpassing heavit and grander. It may be after Automorbe there was a period of disorder divided physically into two areas—the north—sadern comprising the area dimined by the north testibutaries and the south western ladding the country drained by the Jhelum—the Kishanganga and the Chenab—The dividing in a und in 1819 by an arrow sent by Ranjit line between those two areas is the great central—single like the surpression of Afgian rule—until if was mountain range. The area of the biale is of the Afghans—The latory of the State as at mountain range. The area of the biale is of the Afghans—The latory of the State as at mountain range. The area of the biale is of the Afghans—The latory of the State as at mountain range. The area of the population present constituted is practically that of one man a Dozra Rajput Guisb Singh of Jammu History — Various poets have left more or leat his services to the Sikh is remarkable 2 188 126

Mistros v — Various poets have left more or For his services to the Sikhs lingth of Jammu to 1884

test trustworthy records of the history of the mar had been made Rajs of Jammu in 1820

Albar Stringar the capital had by then been long established, though many of the fine build the British and the Sikhs, only appearing legs erected by early Hindu rulers had been as mediator after the battle of Sobreon

strip of level land along the Punjab frontier and intersected by valleys of which many are of surpassing heauty and grandeur. It may be divided physically into two areas—the north

(1840) when the British made over to him for | thisfly connected with scriculture (the silk file Rs 70 lakes the present territories of the State He had to fight for the valley and subsequently het part of his State, Glight, over which the uccessors had at a heavy cost to reassert their claims. His son Ranbir Singh a model Hindu ruled from 1857 to 1885 when he was succeeded by his closest son Major-tieneral H H Maharaja

BIT Fartab Singh GCSI GCIR
ADMINISTRATION -- For some years Malaraja took no part in the administration of the State but since 1900 he had exercised full the State out is more first the last referred in powers assisted by a Chief Minister—Rai Saheb Diwan Amar Nath C12—a Home Minister and a Revenue Minister The four chief ex-ceptive officers are the Governors of Jammu and of Kashmir, the Wazir Wazarat of Gilgli and the Wazir Wazarat of Ladakh The real administrative power lies with the putty subor dinate officers (tabsildars) who exercise cryenuc civil and criminal jurisdiction with regular f easy communications are practical chicks on the use or abuse of appeals. The British Resi the use or appear the British RCJ do not has his headquarters at a longar then is all a Political Agent at Glight responsible to the t cycrament of India for the administration of the outlying pett States and a Briti h Officer I stationed at Leb to assist in the supervision of central Asian trade In the Dogma the State has splendld materials for an Army which consits of 6 961 troops of whom 3 370 are main tained as Imperful bervice morns

FINANCE —The finantial position of the State strong and it has more than 40 lakh invested in Covernment of India securities The total revenue last year was 93 laklis the chief items being land revenue forests customs and octroi-PROLUCTION AND INDUSTRA -The popu

late n la pre-eminently acticultural and pastoral The system of land tenure has been described as r otwari in ruins kreat complexity existing owing to the fact that there is no local law of reil and revenue. The principal food crop is in and levenue in principal tood crop is the maise cotton saffren troace hope toutum crops) and wheat barley puppy from a principal repeat largety. triping, tropic are also grown sheep are largest to the State foreness are extensive and valuable Exploration for mineral, has not a nattempted on sound principles. Vast I have been found at Gulmark and Sapphires. in Padar. The industries of manufacture are pherson,

ture at Sringgar the largest in the world was destroyed by fire in July 1912) oil pressing and the manufacture of wine. The woollen cloth shawls, and wood carving of the State are famous

COMMUNICATIONS - The Stars contains only 16 miles of railway on the Tawi Suchetgarh branch of the N W Railway The Jhelum is the only navurable river At present there is much activity in improving road communica tions but in many parts of the country wheeled

traffic is unknown

PUBLIC WORKS --- In 1904 a flood swill channel above Smangar was constructed with a view to minumising the constant risk of floods and it was hoped that the danger would be still further reduced by the carrying out of a scheme for lowering a part of the bed of the Jhelum which has since been taken in hand Good progres has been made with irrigation but the most important schemes of recent years have been those for an electrical power station on the Jhelum layer and for a Railway into h shinir It was proposed to supply from this ower station cleatrical energy for various state schemes (including the Jhelum dredging scheme) and for private enterprise and possibly for working the proposed hashmir Ball story for weeking the proposed assumer factors way. The works were completed about 1907 and the scheme according to the latest reports a torking, very satisfactural. The proposal for a railway to ha high had been under discus ion for many vears the nature of the country making the question of route a difficult one In 1905, a terision was taken in favour of a time from Schagar out the Jhelum Valley and Abbottabad but the project has remained in abeyance pruding the confideration of further actions a mone with any proposals to three of rop, way from Jammi to brinaga and from Srina ar to the western borders rue the Jhelam Valley

LDUCATION —In educational matters Kashmir is the most backward tra t in the while of India In the State as a whole only 2 in every 100 persons can read and write. The number of persons can read and write educational mstitutions has increased from 45 in 1 91 to 37 in 1911

Resident - The Hon Mr 5 M Faser CS1 CLE

I obta al Agent at Gilgit-Major 1 D Mac-

#### AGENCY BALUCHISTAN

In this Agency are included the Native States ] of helat hharan and Las Bela. The Khan of halat is head of the Baluchistan tribal chiefs whose territories are comprised under the follow in, divisions — Ilialwan barawan Makran kachhi Domki Kahiri Umrani and Nasirabad Nubat These districts form what mea be termed Kalati Bainchistan, and occupy an area of al 503 square miles The inhabitants of the country are either Brahuls or Raluchis both bing Mahomedans of the Sunni sect. The curry is sparsely populated the total number bing about 470 338. It derives its chief im I wance from its position with regard to Afficialists on the north western frontier of British India. The relations of Kalat with the British Gramment. Bridsh Government are governed by two trea tic. of 1854 and 1876 by the latter of which the

Khan agreed to act in subordinate co-operation with the British Government There are however agreement with Kalat in connection with the construction of the Indo European telegraph the cession of jurisdiction on the railways and in the Bolan Pasa and the perma nent lesse of Quetta Nushki and Nasirabad The Khan is assisted in the administration of the State by a Political Adviser lent by the British Government. The Governor General's Agent in Balachistan conducts the relations between the Government of India and the Khan and exercises his general political supervision over the district. The revenue of the State is about Bs 7 65,000 The present Khan is His Highness Amir Sir Mahumud Khan of Kalat GCLL He was born in 1864

Lharan extends in a westerly and south

westerly direction from near Nuchki and Kalat . western under the result and the first to the Pensian border. Its area is 14,210 square reflex, it has a population of 19,010 and an annual average revenue of about Ra 90,000

The Chlef of Kharan, Sardar Sir Nauroz Khan, KCIE, died in June 1909, and was succeeded by his son Sardar Yakub Khan The attitude of the new chief towards Govern ment, and his administration generally were unsatisfactory in 1911 he was nurriered by the sepoys of his guard. Some trouble was caused by an uncle of the murdered chief, who declared hunsel! Chief, but the Government of India smally recognised the succession of a son, Mir Habibulla Khan, and approved measures for the administration of the State during his minority

Las Bels is a small State occupying the valley and delta of the Purali river about 50 miles west

of the Sind boundary Area 5,441 square miles; population 55,109 chiefly Sunni Mahomedana, estimated revenue about Rs 2,25,000 The Chief of Las Bels, known as the Jam, is bound by agreement with the British Government to conduct the administration of his State in accordance with the advice of the Governor-General's Agent This control is exc through the Political Agent in Kalat tences of death must be referred for confirms tion The Jam also employs an approved Wasir to whose advice he is subject and who generally assists him in the transaction of State buniness

Agent to the Governor-General for Baluchi rtan -- Lieut Col Sir John Ramsay KCIE ORI

Political Agent, Kalat and Bolan Pass-Lieut Colonel A B Dew

#### RAJPITTANA AGENCY

Raiputana is the name of a great territorial maintained by the preparation and supply of material substances personal and domestic rides, which includes 18 Native States, two service provides employment for about 5 per charability, and the small British province of cent and commerce for 25 per cent of the population. The principal language is Rajasthani. Balawalpur on the north west by the Punjab State of Balawalpur on the north and north east by Baliswarpur on the north and north east by the Punjab, on the east by the United Pro-visces and Swallor while the southern boun dary runs across the central region of India in an irregular sig-reg line. Of the Native States 17 are Raiput, 2 (Bharatpur and Dholpur) are Jat, and one (Tonk) is Mahomedean The chief administrative control of the British district is wanted as offers in the political officer who holds the peat of Governor-General's Agent for the supervision of the relations between the several the poss of the relations between the several supervision of the relations between the several Native States of Rajputana and the Government of India. For administrative purposes they are divided into the following groups—Alwar Agency Binanir Agency Estern Rajputana Agency, 3 States (Sharathur Doolper, Karauli), Bianoti and Touk Agency 5 States (principal State, Sapinur) Kotah and Jhalawar Agency 2 States Hewar Rajputana States Agency 4 States (principal State, Banswana), Western Rajputana States Agency 4 States (principal State, Banswana), Western Rajputana States (principal State principal State, Banawara), Western Raj putana States Agency 3 States (principal States, Marwar and Sirohi)

The Aravall Hills intersect the country import from end to end. The tract to the porthamong from cut to end. The back to the north-west of the bills it, as a whole, sandy ill-watered and unpreductive, but improves gradually from being a more desert in the far west to compara tively lettile lands to the north-cast. To the south-cast on the Aravall Hills lie higher and space tertile regions which contain extensive hill become and which are traversed by considerable

COMMUNICATIONS.—The total length of rail tage in Reputance is 1,578 miles of which 789 age the property of the British Gevernment. The Reputance Matter (Government from there branched to Bendikul and from there branched Abstraction of the control and around there com-cless is Agre and Delti. Of the Rative State and the State of the Company of the State and the State of the State of the pro-cess of the State of the Company of the pro-perty of the State of the Company of the pro-perty of the State of the Company of the State of the State of the State of the Company of the Compa

Among castes and tribes the most numerous are the Brahmans, Jata, Mahajans Chamars, Rapputa, Minas, Gujara, Bhila, Mahi, and Balais The Rajputs are, of course, the aris tooracy of the country and as such hold the and to a very large extent, either as receivers of reat or as cultivators By reason of their position as integral families of pure descent, as a landed nobility and as the kinsmen of ruling chiefs, they are also the anstocracy of India and their social prestige may be measured by observing that there is hardly a tribe or cian (as distinguished from a caste) in India which does not claim descent from or irregular connection with, one of these Rejput stocks

The population and area of the States are as

ronows		
Name of State	Area in square miles	Population in 1911
Mesoar Residency-	1	
Udaipur	12,958	1,293 778
Banswara	1 946	165 468
Dungarpur	1 447	
Partaboach	886	62.704
Western States Residency-	.]	],
Jodhpur	\$4,968	2,057,558
Jains mer	16 062	86,311
Firohi	1,964	189,127
Jaspur Residency-		,
Jalpur	15,579	2,638,674
Kishangara	858	87,191
Laws	19	2,564
Haracti-Tonk Agency-	]	_,-,
Bundi	3,230	318,720
Tonk	1,114	803,181
Shahpura	406	47,267
Zestern States Agency-		
Bharatpur	1,963	696,645
Dhotour	1,155	970,978
Marauli	1.043	154,784
Estab Jalmer Acesses		-345145
Lotak	Lett	680.680
Shalawar	7.70	41.47
The same of the sa	<b>1 24 21</b> €	
A Service 1	13.0	

Udateur State, (also called Morwar) was founded in about 1859 The capital city is Udat-pur which is beautifully situated on the slope of a low ridge the summet of which is crowned by the Maharajah's palace, and to the north and west, houses extend to the banks of a beautiful piece of water known as the Pichola fake in the middle of which stand two island palaces It is situated near the terminus of the Udahpur-Chitox Railway 697 makes north of Bombay The present ruler is His Highness Maharajadhiraja Maharana Sir Fatch Singh Bahadur 685 I 60 I who was born in 1849 and succeeded in 1884 He is the head of the Seconda Rapputs The administration is Secrited on by the Maharana assisted by two mulisterial officers who with a staff of clerk, come the child aventure department in the It is situated near the terminus of the form the chief executive department in the form the chief executive department in the State. The revenue and expenditure of the State are now about 20j and 28 lakhs a year respectively Usdayn is rich in minerals which are little worked. Its archaeological remains are numerous, and stone inscriptions dating from the third century have been found.

Banaware State, the southernmost in Rajontana became a separate State about 1527 Towards the end of the eighteenth century Banawara became more or less subject to the Marathan, and paid tribute to the Rays of Dhar In 1812 the Maharawal offered to become tributary to the British Government on condition of the expulsion of the Marathas, but no definite relations were formed with him till the end of 1818. The present ruler is His Highness Maharawal Sri Prithi Singh Bahadur who was born in 1888 and succeeded his father in 1913 The normal revenue is about 4 lakhs and the expenditure about 3 lakhs The area of the State in 1,946 square miles and the population 187 468

Dongarpur State with Banswars, for-merly comprised the country called the Pagar It was invaded by the Matrattas in 1818 As in other States inhabited by hill tribes it became necessary at an early period of British supremacy to employ a military force to coverce the Bhills The State represents the Cache of the eldest branch of the Biocityas and dates the semants existence from about Cach, of the eldest branch of the Bisochysa and dates its separate existence from about the close of the 12th Century when Mahup the rightful helt to the Chittor Throne migrated to these parts. The present Chief is His Highness Rai Rayan Maharawai Shri Sir Bisyninghi, Saheb Bahadur K C I R., born in 1897 and succeeded in 1898 During his minority the State was administered by a Political Officer, a chief Excoutive Officer and a Commitative Council of two. No railway line crosses the territory the nearest railway line crosses the territory the nearest railway station, Udaipur being 60 miles distant Re-venue about 8 lakhs

Partabgarh State, also called the Kanthal, was founded in the sixteenth century by a descendant of Rana Mokal of Mowar The Company of the Com by a descendant of Rana Mokal of Mewar The suggil Banadur storeme about four ages. It was founded in 1608 by Special Since is much broken up by Mile of Partab Singh. In the time of Jaswant Singh which the main tenture is Mount Anu, 5,500 sect. (1775-1844) the country was overrus by the Marwina, and the Mahanawah unly saved his of the finances Chandra dan Phora Rajacta, houseld have been pay Fiolity a tribute of last Handra Kango of Delhi. The present country from the wars with clinical in the State Mint westigns from the country from the wars with the State Mint was legal tronder through in the organization of the State Mint was aligned in the State Mint was aligned to Delhi. The Special State State State of Delhi. The Special State S

connection of the State with the British Government was formed in 1804 but the treaty then entered into was subsequently obscilled by Lord Cornwalls, and a rech treaty by which the State was taken under protection was made in 1818. The tribute to Helker is paid through the British Government, and in 1904 was converted to Rs 26, 350 Britishaurement. The present ruler is His Highness Bir Rashmath Singh Bahadar XCIF who was born in 1850 and succeeded in 1890. The State is governed by the Mahrawal with the help of a Minister, and, in judical matters of a Committee of cleven members styled the Raj Sabha or State Council Revenue about 4 lakins expenditure is now under the direct supervision of the State. Jodhary State the largest in Rajputans.

Jodhyn Stafe, the largest in Rajputana, also called Marwar, consists largely of desciste, sandy country. The Malsaraja of Jodhyn; the head of the Bathor Clan of Hajputa and claims descent from Rama the desired king of Ajodhyn. The earliest known king of the clan Alodhys. The earliest known king of the cism, lived in the airth century from which time on-wards their history is fairly clear. The foundation of Jodhpur dates from about 1218, and the foundations of Jodhpur City were laid in 1459 by Rao Jodha. The State came under British protection in 1818. In 1839 the British Correlation of the control of the co Government had to interfere owing to misrale. and the same thing occurred again in 1886. Jaswant Singh succeeded in 1878 and reformed the State His son Sardar Singh was invested the state His son carrier Singh was inversed with powers in 1898 the minority fule having been carried on by his uncle Mahareja Sir Pratab Singh He died in 1911 and was suc corded by his cidest son Maharata Sumer Singh Bahadur who was then 14 years of age parison who was men it years of age into administration of the State w now tarried on by a Council of Regency appointed by the Government presided over by Major-General Mahareja Sir Pratab Singh who abdicated the Gadi of Idar to carry on as Regent the reforms in Jodhpur which he had begun in the time of his nephew Maharaja Sir Sardar Singh Bahadur On the outbrank of the European War both the Maharaja and the Regent offered their services and were allowed to proceed to the Front The young Maharaja was, for his services at the Front, honoured with an Honorary Lieutenantship in the British Army Revenue 80 lakha expenditure 50 lakhs

expenditure of issue Jalsalmer State is almost entirely a mady waste forming part of the great Indian Desert. The Chiefs of Jalsalmer belong to the Jadon clan and claim descent from Krishna. Jabal mer City was founded in 1150 and the State w takes under British protection in 1818 In 1844, after the British conquest of Shad the forts of Shahgarh, Garsia, and Ghotara, which had formerly belonged to Jaimines were restored to the State. The present Chief His Highman Maharawai, Shri Jawaingship Bahadur Rovenne about too lakka.

But this was disallowed and British protection | belong to the Rather clan of Rajpute and are was granted in 1858. The present ruler is His Highness Maharajah Dhiraj Maharao Sir Kesri Sinch Bahadur, GCIE, KCIE. The State is ruled by the Maharao with the assistance of a Diwan and other officials Revenue about 7 lakhs expenditure 6 lakhs.

Japur State is the fourth largest in Raj putana It consists, for the most part of level putane It consists, for the most part of level and open county. The Maharaka of Jaipur at the head of the Kachwaha chan of Raipute, which claims descent from Kusa, the son of Rama, king of Aodhya, and the here of the amous etic poem the Ramayans. The dynasty in Eastern Raiputana dates from about the middle of the twelfth conture, when Amber was made the capital of a small State. The claims of the twelfth conture, when Amber was made the capital of a small State. Chiefs of that State acquired fame as generals under the Mughals in later centeries, one of the best known being Sawai Jai Singh in the eighteenth century who was remarkable for his accountic knowledge and skill. It was he who moved the capital from Amber and built the moved the capital from Amber and built the present city of Japur and elevated the State above the principallites around. On his death a part of the State was annexed by the Jate of Bharatper and internal disputes brought Japur to great confusion British protection was extended to Japur in 1818 but the State continued to be disturbed and a Council of Regency was already and the State Council of Regency was appointed which governed up to 1851 when Maharan Ram Singh assumed full powers. He nominated as his successor Kaim Singh who succeeded in 1830 under the name of Sawai Madho Singh II, and is the present ruler He was born in 1861 and, in consideration of his youth, the administration was at first conducted yould, the summiscretion was at this conducted by a Council under the joint presidency of the Mathemas and the Political Agent He was invested with full powers in 1882. In 1887 his invested with full powers in 1882. In 1887 his salute was raised from 17 to 19 guns a. a personal distinction, followed in 1896 by two additional guns. In 1888 he was created a gust in 1891 a gut in 1893 a guy of 1890 a guy of BEL Joins of Lic Guer of the properties of the Juneau among important events of His Highness rule may be men tended the raising of the Imperial Service Transport Corps in 1889 90 the construction of numerous irrigation works, hospitals and dispensaries, and the "fit of 20 lakes as an endowment to the Indian People's Famme Refiel Trust. Japur City is the largest town in Rajputana and is one of the few eastern crites laid out on a results of the largest town in the contract of th had out on a regular plan It contains, in addition to the Maharaja a Palace, many fine buildnext to the maintains a rance, many me onun-next. The administration of the State is surried on by the Maharaja assisted by a Council of ten members. The military force consists of an Imperial Service Transport Corps which has twice served in Frontier campaigns and about \$,000 infantry 700 cavalry and 800 artillery mes. The normal revenue is about 66 lakha encoditure about 59 lakhs.

descended from Raja Udal Singh of Jodhann, whose second son founded the town of Kishangarh in 1611 The State was brought under British protection in 1618 After various duputes necessitating British mediation, the State entered into good hands and was well ruled during the latter part of the nineteenth century The present roler is Major His Highness Mahara jadbiraja Sir Madan Singh Babadur E C S i E.C.L.E. Umdai Rajhal Buland Makan, who was born in 1884 and was invested with powers in 1915. He administers the State with the help of a Council of three members. Revenue 5 7 lakhs. Expenditure 4 6 lakhs.

Lawa State or takurat, of Rajputana is a separate chiefship under the protection of the British Government and independent of any Native States It formerly belonged to Jaipur and then became part of the State of Tonk. In 1867 the Nawab of Tonk murdered the Thakur's 1867 the Nawab of 10th intrudered the Inature as uncle and his followers, and Lawa was then raised to its present Stata. The Thakurs of Lawa belonged to the Naruka sept of the Kach wahs Rajputa. The present Thakur Mangal Singh was born in 1873 and succeeded to the estate in May 1892. Revenue about Rs. 11 000

Bundi State is a mountainous territory in the south east of Rapputana. The Chief of Bundi is the head of the Hara sent of the great clam of Chauhan Rapputs and the country occupied by this sept has for the last five or six contures been known as Haraoti. The State was founded in the early part of the fourteenth cestury and constant issues with Mewar and Malwa Callernol. followed. It threw in its lot with the Maho medan emperors in the stateenth century. In later times it was constantly ravaged by Marathas and Pindaries and came under British Marathas and Pindaries and came under British protection in 1818 at which time it was paying tribute to Holkar The present ruler of this State—which is administered by the Maharao Raja and a Council of 6 in an old fashkoned but popular manner—is His Highness Maharao Raja Br Raghubir Singh Bahadur 6 c 1 k, 6 c, v o R C.S.I He was born in 1869 and succeeded in 1889 Revenue about 10 iskhs Expenditure

Tonk State-Partly in Rajputana and partly Tonk State—rarry in anjustes and party in Central India consists of six districts sepa rated from each other The ruling family belongs to the Pathans of Afgians of the Buner tribe The founder or the dynasty was Amir Khan a General in the army of Holkar at the end of the eighteenth century. He received a conditional guarantee of the lands he held under commons grantees or the saids he best united the Aghans from Holkar in 1817 His son was deposed in 1807 owns to misrule. The present ruler of the State is His Blighness Nawab Str Muhammad Ibrahim All Khan Bahadar S CLE. The administration is conducted by the Nawab and a Council of four members but the Poliand a Council of four members but the Pol-tival Agent takes an active part in the guidance of the administration and the finances—owing to the indebtedness of the State. Revenus 11 lakhs Expenditure 9 lakhs

supenditure about 59-lakha.

Etakusagark State is in the centre of Rajpulsass and consists practically of two marrow
sodies claim of Rajouta. The Chiefe of Kentangari
logical and Rajouta. The Chiefe of Kishangari
logical and feetile. The Chiefe of Kishangari
logical and feetile.

succeeded by adoption in 1970 and received full powers in 1976. In addition to holding Shahpura by grant from the British Government the Raja Dhiraj possesses the estate of Kachhola the Kala Distra possesses has caute of mannota in Udapur for which he pays tribute and does formal service as a great noble of that State. Revenue 3 lakha Expenditure 2 6 lakha.

Bharaspin State consists largely of an unutuse alluvial plain watered by the Ban gappa and other rivers. It peaced into the liends of Mahomed Ghori at the end of the twelfth century and for 500 years was held by the control of the whatever dynasty ruled in Delhi The present ruling family are Jats, of the Binsawar clai who trace their pedigree to the eleventh century Bharatpur aided with the Marathas in the war of 1804 and was unsuccessfully beareged by Lord Owing to the appearance of an usurper operations against it were resumed in 1825 and m the following year the capital was captured by Lord Combermere The present chief is a minor, Maharaja Sawai Kishiia Singh Bahadur who was born in 1899 and succeeded in the following year, his father Ram Singh having been deposed for the murder of one of his ser council of four members presided over by a Pohtical Agent Revenue 31 laking Evpenditure 28 laking

Dholpur State the casternmost State in Reputers has changed hands an unusual number of times. It was occupied by the Bri tish in 1803 and restored to the Gwalior Chief who formerly owned it but by a fresh arrangement of 1806 it was constituted a State with other districts and made over to Maharaj Rana Kirst Singh, in exchange for his territory of Gohad which was given up to Sindhia. The ruling family are Jats of the Bamraolia clan the latter name being derived from a place near Agra where the family held land in the twelfth custory The present chief—who is assisted in the administration by three Mulaters—is H H Maharaj Rana Udaibhan Singh Lokinder Bahadur He was born in 1693 and succeeded in 1911 Bevenue 15 lakhs Expenditure 12 lakha

Karauli State is a hilly truct in Eastern Raiputana, of which the ruler is the head of the Jadon clan of Rajputs who claim descent from Un the decline of the Maghal power the State
was subjugated by the Marathan but by the treaty of 1817 it was taken under British protection. Its subsequent history is of interest thichy for a famous adoption case, in 1852. The present ruler is H. H. Maharaja Sir Banwar Pal present rules. If A makerage of passes, the property of the property of the property of the powers in 1889, and invested with powers in 1889, and invested with powers in 1889. He is assisted by a council of five members. Revenue 8 lakhs.

Rolah State belongs to the Hara sept of the clan of Chaukan Rajputs, and the early history of their house is, up to the 17th century dentical with that of the Bundi family from which they are an offshoot. Its emistence as a legarity result of land in the separate State dates from 1625. It came under Suiish protection in 1817 but a dispute as to the succession made armed intervention necession from the factor of the Nacatan Rajputa, at offshoot from the Rachwah Rajputa, of whom the Mangrol. This dispute due to the was founded by Fratal Singh, who hadon had been that the armaginesest had been made by death in 1791 had spotted personal at large which one present at large protects of the Jaipur State. His successor

nized as the titular older and another-Transit Singh as the guaranteed actual ruler) brokes out again in the thirties when it was decided with the consent of the Chief of Kotah to diswhen the State and create a new principality of Jhalawar as a separate provision for the descendants of Zalim Singh. The present ruler is H H Maharao Sir Umed Singh Bahadur, who was born in 1878 and GOSI GOLE GOSI GOLD who was ourn in 1976 and invested with full powers in 1896. In administration he is assured by a Diwan. The most important event of his rule has been the restoration, on the deposition of the late chief of the July war State of 15 out of the 17 districts which had been ceded in 1838 to form that principality Revenue 31 lakhs Expenditure 26 lakhs.

Fhalwar State (for history see under Kotsh) consists of two separate tracts in the south-east of Rapputans. The ruling family belongs to the Jhala clan of Rapputa. The last belongs to the Jhala clan of Barputa. The last ruler was deposed for misgovernment in 1896. part of the State was reassigned to Kotah, and Kunwar Bhawani Singh son of Thakur Chhatar in in war blawar bings son of the said of Fatehpur, was selected by Government to be the Chief of the new State. He was born in 1874 and was croated a K c.s.i in 1908 He is assisted in administration by a Council and has done much to extend education in the State. Revenue 4 lakha

Bikaner State the second largest m Rappulana, consists largely of sandy and in watered land. It was founded by Bika, a Rathor Rapput the sixth sau of a Chief of Mar war in the loth century. Rai Singh the first Raja, was one of Akbar's most distinguished generals, and built the main fort of Bikaner I broughout the 18th century there was constant fighting between Bikaner and Jodhpur In 1818 the Maharaja invited the assistance of British troops to quell a rebellion and subse-quently a special force had to be raised to deal with the dacoits on the southern borders of the State The Thakurs of the State continued to give trouble up to the eighties. The present chief is Colonel H H Maharajah Sir Gangs Singh Bahadur GOSI, GOIN ADC to the King who was born in 1880 and invested with full powers in 1808 He raised an Imperial Service Camel Corps which served in China and Somalihand and His Highness served in the former campaign houself being mentioned in despatches In 1900 he was awarded the first class Kalsar I Hind medal for the active part be took in relieving the great famine of 1899-1900 is an honorary LLD of Cambridge. In adminis-tration His Highness is assisted by five scoretration his Highness is assisted by five scort-stance to each of whom are allotted certain departments and there is a council of five members which is primarily a judicial body, but is consulted in matters of importance. The normal revenue is Rs. 26 lakhs and the expenditure 21 lakhs there are no debta. A coal mine is worked at Palans 14 miles south of the capital.

seek a fines to congresse with Lord Lake in the rest of 1988 and as allience was concluded with light in that year, when the homodaries of the finish as new recognized were fined. Various reledings and disputes about succession mark the shatery of the State during the earlier part of the niceteenth century. The present chief, H. H. La-Col Sewas Maharaja Sir Jey Shughi Behader, R.C.S.I., R.O.I.B., who was born in 1882, anconsided his father in 1882 and was invested with powers in 1998. He carries on the sample and the sample of a Council Agent—Lieut Col A. D.A. G. Banner administration with the sample ance of a Council. administration with the assistance of a Council of four Ministers Members of His Highness, Council and various heads of departments. The normal revenue and expenditure are about Es 32 lakks a year. The State maintains an ins it lakes a year two regiment of cavelry another of intantry and an irregular force. The late Maharaya was the first chief in Rapputana to effer (in 1888) sld in the defence of the Empire Political Agent—Lieut.—Col. H. B. Pescock.

WESTERN RAJPUTANA STATES about Remient Lieut Col C J Windham.

HARACIT AND TORK.

#### CENTRAL INDIA AGENCY

Central India is the name given to the country occupied by the Native States grouped together under the supervision of the Political Officer in charge of the Central India Agency These States he between 21° 24 and 26° 32 N lat. and between 74° 0 and 88° 0 E long The and between 74° 0 and 88° 0 E long. The British distincts of Jhansi and Lalitpur divide the agency into two main divisions—Bundel khand and Bagnelithand lying to the east, and Central India proper to the west. The total area covered a 78 772 square miles, and the population (1911) amounts to 93 990. The great majority of the people are Hindus. The principal States are eight in number—Gwallor indore, Bhopal, Rewa. Dhar Janay. Data and Indore, Bhopal, Rewa, Dhar Jaora, Data and Orchal of wishi two, Bhopal and Jaora, are Mahamedan and the rest are Hindu Besides these there are a multitude of petty States held by their ruless under the immediate guarantee of the British Government, but having fendal relations with one or other of the larger States their ruless under the immediate guarantee The total number of States amounts to 158 For administrative purposes they are divided into the following groups Bagheikhand Agency, 12 States (Principal State Rewn) Bhopal 18 States (principal State Rews) Bhopal Agency 19 States (principal Bhopal) State Bhopawar Agency, 23 States (principal Bhopal) State Bhopawar Agency, 23 States (principal State Diaz) Bundelkhand Agency, 22 States (principal State States) Bundelkhand Agency, 22 States (principal State, Dates) Battes (principal State, States) Battes (principal States) Battes (pri the Bundelkiand and Raghelkhand up to the Minute Hange. The billy tract lies along the mass of the Vindhyat and the Satyunas. There control vindayes and the restremes. There is no in this practised, the inhabitants is the inhabitants of the wild tribes. There is not the different Sealer are much seal their political relations with the control finds and easily sther are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and easily sthere are level for the control finds and the control finds are level for the control finds and the control finds are level for the control finds and the control finds are level for the control finds and the control finds are level for the control finds are level finds are level for the control finds are level finds are level

The following list gives the approximate size population and revenue of the cight principal States above mentsoned -

Name.	Area in equare miles	Popu lation	Revente
Gwallor Indore Bhopal Bowah Dhar Jaora Datia Orcha	25 123 9 506 6 902 13 000 1,785 508 911 2 079	3,102,279 1 007 856 730,388 1 514,843 154 070 75 951 154,608 830 082	Ba. lakha. 140 70 30 58 9 11

Granter — The house of Sinchis traces its descrit to a family of which one branch held the hereditary post of patel in a village near Satara. The head of the family received a patent of truck from Aurangashe The founder of the Gwallor House was Ranoil Sinchia who is said to have been a personal attendant on the Peshwa Raji Bao In 1728 together with Malhar Rao Holkar, the founder of the house of Indore, he was authorised by the Poshwa to collect revenues and he fixed his headquarters at the ancient city of Vilain, which became the capital of the of Ujjain, which became the capital of the Sindha dominions Gwallor subsequently of Ujisin, which became the capital of the Sindha dominions Gwallor subsequently played a leading part is shaping the history of India. The reverses which Sindhis a troops met with at the hands of the British in 1783 and 1780 led to the treaty of Salhai (1783), which made the British arbiters in India and recognised Sindhia as an independent Chief and not as a vasual under the Penhum Sinhequently Sandha willters nows developed by the Sindhia military power, developed by the French Commander DeBoigne, was completely destroyed by the British violeties of Alumei-nagus Assays, Assayach and Lasward.

The present ruler is Major-General M. H. Habs Tree in the is Haper-semme H. I.
Habshao Rao Sindbia, g o v o, g D.A.L. A.B.C.
to the King. He messeded in 1886 and obtained powers in 1886. In 1991 he west to China
during the war he helds the rank of honourity
Major-denoval of the British April and the
honoury degree of LLB., Cambridge. The

Bhopsi to Blaind, from Sua to Shoopur and Gwaltor to Bhind, from Gwaltor to Shoopur and from Gwalior to Sipri The main industries are cotton ginning which is done all over the State Since the majoratory of the done work etc. The State majorators three regiments work etc The State mentains sures regimen to of Imperial Service Cavalry two battalions of Imperial Service Infantry and a transport corps Lashkar the capital city is two miles to the south of the ancient city and the fort of Gwallor Annual expenditure 183 lakha

Indore —The Holbars of Indore belong to the shepherd class, the founder of the house Malhar Rao Holkar, being born in 1693 His soldierly qualities brought him to the front under the Peshwa who took him into his service and em resums who took him into his services and employed him in his conquests. When the Maratha power was broken at the battle of Panipat in 1761. Malhar Bao had acquired vast territories. tretching from the Decean to the Ganges He was mosceded by a lunsite son who again was succeeded by the mother Ahlys Bai, whose administration is still looked upon as that of a model ruler Disputes as to the succession and other causes weakened this powerful State, and, when it assumed a hostile attitude on the out break of war in 1817 between the British and the Peshwa Holkar was compelled to come to terms The Treaty of Mandaser m 1818 still governs the regulations existing between the State and the British Government. In the matmy of 1857 when Holker was unable to control his troops he personally gave every possible assistance to the authorities at Mhow

In 1963 fiveji Rao abdicated in favour of his son His Highness Maharaja Tukoji Rao Holkar the present ruler who was born in 1890 and was formally invested with ruling powers in November 1911 In the administration His Highness is assisted by his Chief Minister and a Council of 5 Ministers The State and a (contout of 5 ministers the State Army consists of 510 imperial Service Troops and 1 629 State forces The capital is Indoor City on the Ajmer-Khapdwa Section of the Rajputana Maiwa Ballway The ordinary Ballway revenue for 1914 15 is estimated at Ra 85 49 400 expenditure estimated for and the ordinary expenditure est that year is about the same amount

Bhopal -Bhopal State was founded by Dost Muhammad Khan, an Aghan from Tirah, who west to Delhi in 1708 in search of employment. Obtaining a lease of the Bergala Pergana he extended his dominions, assumed independence, extended his dominions, assumed independence, and adopted the title of Nawah. Of subsequent rulers the most noticeable is Hamulla, a lady of remarkable power, who controlled the State for 50 years. In the early part of the nineteenth century the State successfully withstood the combined attacks of Gwalfor and Napper, and, by the agreement of 1817 Bhopal undertook to asset the British with a contingent force and to co operate against the Findard bands.

administration is controlled by the Maharaja The State Army constant of 2.500 men, including another by the Majoraja The northern part of the Majoraja to represent of Impacial Service Cavely such the G I P Resident state is reserved by manded by as an of the persons returned by the same of the

4 P

miniman Section of the C I P Ranway and the Ehopal-Ujiah Halfway Rawah.—This Shate lies in the Beginthand Agency and falls into two natural divisions sepa-rated by the scarp of the Kaimer range. Its Chiefs are Baghel Rajputs descended from the Bolanki chan which ruled over Guinet from the tenth to the thirteenth century. In 1812 a body of Pindarses raided Miraspur from Rewah term tory and the chief, who had previously rejected cory and are called, who had providing to overtures for an alliance, was called agon to accede to a treaty acknowledging the protection of the British Government. During the Maxing, Rewah offered troops to the British, and keeping to the British and the British and British and the British and Bri his services then, various pargamas, which has been selsed by the Marathas, were retorred to the Rewah Chief. The present chief is H H Maharas Str Venkat Hamms Single, G.S.T. who was born in 1876 He is assisted in the admirable of the control of nustration by two Commissioners one for revenue matters and one for judicial The State force consist of about 1 700 men. The State is famous for its archeological remains and is rich in minerals, coal being mined at Umaria average expenditure is Rs 11 lakhs

Dhar — This State, under the Bhopawar Agen oy takes its name from the old city of Dhar long famous as the capital of the Paramara Rajputa, who ruled over Malwa from ninth to the thirteenth century and from whom the present chick of Dhar-Ponwar Marathas-claim descent. In of Distr—Fonwar Marathas—claim descent. In the middle of the 18th century the Chief of Dhar, Anand Bao was one of the leading chiefs of Central India sharing with Holtar and Shufshis the rule of Malws. But in 1819 when a treaty was made with the British, the State had become we reduced that it consisted of little more than the capital The ruler is H H Haja Skr Udaill Hao Forwar K o S L, who was born in 1886, and has control of all civil, judosis, and oratinary administrative matters There are 22 fords tories, of whom 13 hold under a guarantee from the British Government. The average expen diture is about 8 lakha.

Jeora State -This State is in the Malwa agency and has its head quarters at Jacca town The first Nawab was an Afghan from Swat, wh had come to India to make his fortune, cound employment under the freebooter Amir Khan, and obtained the State after the treaty of Man dasors in 1817 The present oblef is Major H H Sir Mahomed Irikhar All Khan, K.c.L., who was born in 1883 and is an honorary major in the Indian Army The soil of the State is among the richest in Malwa, being mainly of the best black outton variety, bearing excellent crops of poppy The average annual excellent crops of poppy The average amunal revenue is Rs. 772,000

Rutham State—In the Malwa agency, has

matter delication of 602 square index. The Rajas are Bathor Rajouts of the Jodapur house, the present chief being H H Raja Sajjan Singh, who succeeded in 1993 Revenue about five lakhs

The present Begum is Her Highness Nawab Suitas Jahne, o.c.s., o.c.s.,

Bahadur who was born in 1886 and succeeded in 1907

Orchia State -The chlefs of this State are Bundela Raiputs claiming to be descendants of the Gaharwars of Bundres It was founded as an independent bists. In 1048 4 D. It entered into relations with the British by the treaty made in 1812. The present rule is His Highness Sir Pratap dight 6081 GCLE who was born in 1854 He has the title of "aramad l kajaha i Lundei title the title or aramod l Rajaha i Lundel khand Maharaja Mahendra Sawai Bahadur sanand unisaraja Manenira Sawai Banatur Ta Siti ha a p-pulation of 1 0042 and su an a 11 2000 quant mil. The capital 3 Thannaris only from Laitpur on th G I P Railway Orthia the ild capital in fallen into decay but is a place of interest on account of its magnificent buildings of which the finest were created by Bir Singh Dec the most famous ruler of the State (1905-18-7)

Agent to Governor Gravul-O V Lo angu t IND THE BROL M. Political Agent-W 8 Davis BUNDLLKHA? D Political Arent-Litut (of P 1 A Spen J (CH) LKHAND Foldical Agent-Lieur ( ) 5 H Gratters BHOPAWAR. Politi of Agent-L M (rump

#### Sikkim

Sikkim is bounded on the north and north east by 13b 4 on the south eart i; Blutan on the south by the liftish district of Darpling and on the west by Vepal. The population consists of Bhuda L p ha a 1 Nepal r It form the direct route to the Chunchi Vall v m Tib t The main axis of the Himalaya which run tast and we t forms the houndary between Slikkim and Tibett. The Singalla and typola ranges which run southward from the main chain superate Sikkin from Repai on th west and from Tibet and Bhutan on the ca t From the ca tern flank of the Smeable range From the cast millions of the himmalia mange rise the grat snow pasks of Kinchinjunga 48 146 fet) ore of the highest mountain in the world—it through the cond spure terminating at Tendough The Chela range which is much loftier than that of Singalia leaves the main chain at the Dongkya mountain

Tradition says that the ancestors of the rajas of Sikkin originally came from eastern Tibet. The State was twic invaded by the curkhas at the end of the right onthe ntury On the out break of the Nepal War in 1814 the British formed on alliance with the Raja of likkin and at the close of the war the Kaja was n ward d by a considerabl acc sion of territory In 18 , the

by grants from the Delhi emperors. The present | The State is thinly populated, the area being chief is H H Maharaja Lokendra Gobini Singh | 2.818 square miles and the population 87 920 chiefly Buddhists and Hindus. The most im portant error is malze. There are several trade routes through Sikkim from Darjiling District into libet. In the convintion of 1890 provi sion was made for the opening of a trade route but the roults were disappointing and the silure of the fib tuns to fulfil their obligations resulted in 1904 in the despatch of a mission to Thash where a new convention was sumed I rade with the Briti h has inoreased in recent year and in 1911 12 prached total value of A number of good roads have been Construct d in reint wars. The resent rule, Hi Highness Maharajah Ta his Namyah who was been in 1803 and succeeded in 1314 The present ruler The Political Off restationed at Gangtok edukes and assist the Maharajah and his Council The average revenue I Rs 2 85 000

#### Political Officer in Sikkrin -- C A. Bell, C M.G.

#### Bhutan

Bhutan extends for a distance of approximately numen extends for a distance of approximately 190 miles east and west along the southern slopes of the central axis of the Himalayas, adjacent to the northern border of Fastern Lengel and 4 sam. Its area is 18 000 square miles and its population constraint of Duddhists and the land hour length of the central at 190 000. and idu has been estimated at 300 000.
The country firmerly belonged to a tribe called ani Tek pa but was wrested from them by some Tibeian schil 14 about the middle of the even teenth entury Littleh relations with Bhutan commenced in 1772 when the Bhotlas hivaded th principality of Cook Buhar and British aid was invoked by that State After a number of taki by the Bhutanese into A am an envoy (the Hon A Edun) was sent to Bhutan who was gros. Is insulted and compelled to sign a treaty surrendering the Duars to Lhutan r turn the treaty was disallowed and the Duars anniced. This was followed by the treaty of libb by which the State's relations with the Government of India were satisfactorily regul lated. The State formerly received an allowance of half a lake a year from the B itlah Govern ment in consideration of the reason in 1865 of some areas on the southern burders. This allowance was doubled by a new treaty concluded in January 1910 by which the Bhuta nese Gramment bound itself to be guided by This the advice of the Pritish Government in regard to it external relations while the British Covernment undertook to exercise no interference in the internal administration of Bhutau On the occasion of the Thor Mission of 1901 the Photias gave strong proof of their friendly attitude. Not only did they consent to the survey of a road through their country to Chumbi, but their ruler the Tongsa Penlop accompanied the British troops to Lhasa, and assisted in the necotiations with the Tibetan authorities. For these services he was made a considerable accession of territory in its store. But and he has since entertained the property of the British at College and he has since entertained the property of the State ruler is now known as H. H. the Maharaja of was amorted for the secure and detention of Buttan Sir Uggen Wangchuk, K. Si. K. Ci. E. The Campbell the Superintendent of Darilling. At the head of the Bintan Government there there is now known as H. H. The Maharaja of was amorted for the secure and detention of Buttan Sir Uggen Wangchuk, K. Si. K. Ci. E. The Campbell the Superintendent of Darilling. and Dr Hooker the famous naturalist in 1849, are nominally two supreme authorities the The State was proviously under the Government Dharma Raja known as Shapiling Renipoche of Bengal, but was brought under the direct the spiritual head and the Debor Depa Raja supervision of the Government of India in 1866; the temporal ruler The Dharma Raja is

regarded as a very high incarnation of Buildha (Europeans into service without the sanction of far higher than the ordinary in arnations in the lading Government. But for the reasons Thet of which three are several hundreds, above even the functions of the Resident duffer On the duals of a Dharma Raja a vector two is allowed to take a sea and himmonth of the functions that are commonly exercised by it allowed to take and himmonth of the function than Reviews to the function of the Resident at Astro-Courts. tal es place always in the Chojo, or royal latinly of Bhutan

sultivation is backward and the chief crop is maire The Military force consists of local levies under the control of the different thiefs The art of no mulitary value

#### Nenal.

The kingdom of Nepal is a narrow trut of our try extending for about 2.0 miles along the will lirn slope of the central axi of the Hima Bay is It has an area of about 4 000 squarmiles with a population of about 000 000 incident in the state of a bout 000 000 incident in the state of the country a mountainout the lower slipe beliggift. rated Abo e these is a migged broken wall of rock leading up to the chain of mow clad I ake with culminate in Mount Pier ((-)04. It is another as shiftly less distance the countries of shiftly less distance the countries of the cultivation as a split up and swear a small kingdoms under Newarkings. The Curkless under Pittivi Naravan Ship verran and conquir dithe different hingdom of latan Kathmandu and Bhateaon and oth r pieces during the later halt it the 15th century and since then have been ruler of the while of her ! In 1546 the head of the Pana family obtained from the sovercian the per-petual at 1 to the order of Frank Manuster at N tal and the right is still enjoyed by hi doe nd aur. In 1500 Jung Labidur pild a visit to Inland and was thus the first Hin lu ( luet to 1 4); In he and to become a quainted with the power and resources of the Bittib intion. The relations of Negal with the Covernment o India are regulated by the triaty of 1910 and lubse quent agreem ats but the indical tatus of Neval's difficult to d fine. It may be all to what it discount to the fit has to all the value to the discount and all the latter states of In ha. The point of the blance to Afghan tan is in the complete free domination which Negal enjoys in the management of its internal affairs while in both countries foreign t lations are controlled by the Indian Govern in order put unit. The analogy to the Values states in order put that by treaty N ral is oble if to receive a Readent I British Resident at Katmandu and cannot take CV U U I E

Yepal is also brought into relations with China whose nominal surrainty she acknowledged It i an inducate that excepts high and consists in the deepatch every five years of a mission with presents to the ruling Emperor miss in though it may at one time have carried a certain amount of political significance has now mainly a tinding aspect. Its expenses are paid by the ( hime e from the time it cro.scs the repalcee fronter and a brick trade i carried on throughout th journey

From the tore one, account of the history of North will L seen that the Gov riming of the country has generally Leen in the hands of th Minister of the dig Since the time of Jung I bladur this system of government has been clearly had down and defined. The sovereign or Maharaj Dintaj as he is called is but a dignifi d hyure head whose position can best be lk-ned to that of the Linperor of Japan during the Shogueste. The real ruler of the country is the Million while enjoying complete monopoly of power couples with his official rank the exalted title of Maharaja Next to him com the Commander in Chief, who ordinard, socieds to the office of Minister flu press in Mini (or at the head of affairs of Agal 35 Mahusja or Chandra Shum Shere lung Pahadur Rana er Less ervo not and Honorary Major General in the But h true He has been I one Monister and Mar hal of Nepal smace June 1301

Ric wheat and maire form the chief grops in the lowland Minicral wealth is supposed to be g at but like other sources of reverue has not be a decloyed communications in the State a c p runting the revenue to about two crores of running per annum. The stinding army is a timited at 40000 the bitch put in it being filled to relations of the Mini ter The State of of a neal rable are bace logical interest and many of the site connected with senes of Buddha life have been identified in it by the remains of in-cribe I pillars

R sident I tout Col J Manuers Smith V C

#### NORTH WEST FRONTIER STATES

Province are 4mb Chital (Bijaur) and Phuleia The tot Dir Nana-a The total mean about Voltam nict said the ropulation miles and the ropulation Mallomedan is 162-081 for average annual tever us of the first four a about his 4 6 : 000 that of Phulers is maknown

Amb -Is only a village on the western bank of the Indus in Interested at launwala.

Chitral -Runs from Dir to the south of the Hirdu Kush range in the north and has an area of about 1 our square miles. The ruling dir sets that maintained the If for more than three hundred years, during the greater part of which the State has constantly been at war with the neighbours. It was visited in 1885 by the Lockhart Mission and in 1889 on the establish are extremely tertile and continuously cuit ment of a political agency in Gright the ruler vated. The internal administration of the

The matrix tates of the North West I ronter of Chitral received an annual subsidy from the I riti h Government That subsidy was increased two years latter on condition that the ruler Amount of Mulk accepted the advice of the Bri ti h (los timent in all matters connected with torong poles and frontier defence. His sudden death in 150, we followed by a dispute as to the succession. The eldest son Mixam ul Mulk was ictograped by Government but he was mur der d in 189 — A religious was was declared against the mildel and the Agent at Gilent who had been sent to Chitral to report on the situa tion was besieged with his except and a force had to be despatched (April 1890) to their relier

foreign policy is regulated by the Political

Dir —The territories of this State, about 5 000 square miles in area include the country drained by the Panikora and its afficients down to the function of the former river with the Bajaur or Rud, and also the country east of this from a point a little above 1 irah in Upper wat down to the Dush Khel Country following the right bank of the Swat river throughout The ing allegiance from the petty thiefs of the clans Dur is mainly held by Yusulzai Pathans, the old on Fathan inhabitants being now confined to the upper portion of the Paulkors Valley known as the Bashkar

Beleur - Nawagaris a tract of country

country is conducted by the Wehter and the included in the territories collectively known as Baseur which is bounded on the north by the Panikora river on the east by the Utman Khel and Mohmand territories and on the west by the and Mohmand territories and on the west by the watershed of the Kuna river which divides it from Afghanistan The political system, if it from Afghanistan The political system, if it can be turned system, is a communal form of party government, subject to the control of the Khan of Nawagan who is nominally the hereattary their of all Bajaur. Under him the country as divided into everyal indior Khanaites each governed by a chieffain usually a near relative of the Khan Rur urbailly the authority of the But virtually the authority of the of the Khan chieftains is limited to the rights to levy tithe, or ushar when they can enforce its payment, and to exact mulitary service if the tribermen

I obtain Agent for Dr., Swat and Chitral Major W J Keen

## NATIVE STATES UNDER LOCAL GOVERNMENTS

The Madras Presidency meludes 5
Rative Stares covering an area of 10 097 square
miles Of these the Status of Travancore and
Cochin represent ancient Hindu dynasties
Pudukattar is the inheritance of the chieftent
called the Tondiman Banganagaile and Sandur two petty States of which the first is ruled by a Nawab he in the centre of two British districts

	I	1 -	1		
Vame	Area eq nules	Popula tion	Approx Revenue in lakha of rapee		
	_	'	_		
Travancore	7 129	3 128 975	128		
Cochin	1 381	91= 110	47		
Pudukottar	1 178	411 878	16		
Banganapalle	2.0	29 3 <sub>0</sub> 8	2 ៩		
Sandur	161	13 31	1 7 1 2		

Travancore-This State occupies the south Travancore—nus otate occupies no south west portion of the Indian Penissula, forming, an irregular triangle with its apex at Cape Commin The carly blastory of Iravalurer in great part traditional but there is little doubt that H. H. the Maharaja is the representation of the theory of the travely of the Characteries of the Characteries. doubt that H H the Maharaja is the representative of the Chera dynasty one of the three great Hindu dynasties which exercised sovereighty at one time in Southern India The petty chiefs, who had subsequently set up as independent rulers within the State were all gubdued, and the whole countre included within its present boundaries, was consolidated and brought under one rule, by the Maharaja Marthanda Varms (1789-68) The English first settled at Anjengo a few miles to the north of Trivandrum, and built a fastiory there in of Trivandrum, and built a fatfory there in 1684 In the wars in which the Rast India Company ware engaged in Madurs and Tume-velly in the maddle of the 18th century the

includes 5 of the staunchest allies of the British Power and was accordingly included in the Treaty made in 1784 between the East India Company and the Sultan of Mysore To protect the State from Sultan of Wiver I by protect the State from pussible mreads by Tippu, an arrangement was come to in 1788 with the East India tompany and in 1795 a formal treaty was concluded by which the Company agreed to protect Traisan core from all foreign enemies. In 1805 the annual subsidy to be paid by Travancore was fixed at 8 lakhs of rupees

> The present ruler is His Highness Maharata Sir Rama, Varma 6 US1 GCIE, who was born in 1907 and ascended the masnad in 188. The government is conducted in his name with the assistance of a Dewan (M. Krishnan, Nair) The work of legislation is entrusted to a Council brought into existence n 1888 An assembly known as the Sn Mulam Popular Assembly mee't once a year when its members are able to bring suggestions before the Deway The state supports a military force of 1474 men Education has advanced considerably in recent years and the State takes a leading place in that respect The puncipal food grain grown is rice but the main source of agricultural wealth is the cocounit Other crops are pepper weath is the coconing of the trops are pepter and the track fruit and taploca (often weat not and the making of marting from the coir are the rinef industries. The State is well provided with roads and with a natural system of back waters besides canads and rivers. navigable for country crafts. Two lines of railways intersect the country the Cochin Shoranore in the north west and the linnevelly Quilon passing through the heart of the State
> A third has from Quilon to Trivandrum, is in
> process of construction The capital is Tri yandrum

#### Political Agent R A Graham

Cockin.—This State on the west coast of India is bounded by the Malabar District of the Madras Presidency and the State of Travancore Very little is known of its early history. According to tradition, the Rajas of Cochin hold the territory in right of descent from Cheraman Travancore State gave assistance to the British Perumal, who governed the whole country of authorities. Travancore was recknied as one Kerala including Travancore and Malsbar, as

Viceroy of the Chola Kings about the beginning treaty or arrangement with the Raja The of the ninth century and afterwards estab present ruler is 8rl Britadamba Sir Marthanda of the Indianandent Ruler. In Statzava Tondiman Bahadur G 0.18 who is 1502 the Portuguess were allowed to settle in what is now British Cochin and in the following vear they built a fort and established commer call relations in the state. In the earlier wars with the Zamorin of Callout they assisted the Raiss of Cochin The influence of the Portu guese on the west coast began to decline about the latter part of the seventeenth century and in 1563 they were ousted from the town of cochin by the Dutch with whom the Raja entered into friendly relations. About a cotury later in 1759 when the Dutch power began to decline, the Raja was attacked by the Zamo rin of Calicut who was expelled with the assis tance of the Ram of Travancore In 1776 the State was conquered by Hyder Ali to whom it remained fributary and subordinate and subarquently to his son Tippu Sultan A treaty was concluded in 1791 between the Raja and the East India Company by which His Righness agreed to become tributary to the Lutish Government for his territories which were then in the possession of lippu and to pay B subsidy

His Highness bit Fr Raina Varinah GCBI\* COLR who was born in 18.2 and who ascended the manad in 1895 having abduated in Is o mber 1014 His Highness Sri Rama Varmah who was born on 6th October 1408 succeeded t) the thront and was duly justalled as Raja on the 21st January 1915. The administra on the 21st January 1915. The administration is conducted und r the control of the Raja whose chief Minister and I vective Officer is the Dewan (4 W 1 hor). The forests of Coolin form one of its most valuable hassets. They also und in teak about the walked trees. They are the corus the staple of cultivation. Coconnuts are largely maked in the control of the contro largely raised in the sandy tracts and their products form the chief exports of the State communications by road and back waters are good, and the btate owns a line from Shoranore to Emakulam the capital of the State and a Forest Steam Tramway used in developing the

thois Kings and the southern part to the Pandya Kings of Madura Rulations with the logland began during the Carnatic wars. Dur ing the steep of Trichinopoly by the Franch in 1.5. the Tondiman of the time all good pervice to the Company a cause by sending them pro vivion although his own country was on at of his fidelity to the English. In 1".6 he sent some of his troops to assist Muham mad lusts, the Company's sepoy comman dant in settling the Madura and Tunevelly untries Subsequently he was of much services in the wars with Haldar All. His services were rewarded by a grant of territory subject to the conditions that the district should not be alse nated (1806) Apart from that there is no

elgith in descent from the founder of the family He succeded in 1886 The Collector of Trichino poly is ex-officio Political Agent for Pudukottal The administration of the State, under the Raia is entrusted to a State Council of three members a Superintendent (Mr J T Gwynn 10.8)
Dawar and Councilor The various depart
ments are constituted on the British India
model The principal food crop is rice. The forests which cover about one-seventh of the State contain only small timber. There are no large industries. The State is well provided with road, but Pudukottan is the only municipal town in the "tute

#### Political Agent A L. Vibert.

Ranganapalle - This is a small State in two detached portions which in the eighteenth cen ture passed from Hyderabad to Mysore and back again to Hyderabad. The control over it was ceded to the Madras Government by the Vizam in 1800 and subsequently passed through a long period of mispianascement cading in the removal of the Nawab Fatch Ali Aban in 1905 The present ruler is Nawab Sayid Gulam All khan s Mahomedan of the Shis Sect who administers the State with the assistance of the Dewan khaja Akbar Hussain The chief food grains grown are nee wheat and cholam. Roads have recently been constructed and the capital Banganapaile is being gradually opened up with broad thoroughfare the Nawab pays no tribute and maintains no military force Seriouture las cultivation and weaving industries have lately been started in the State by the Superintendent of Industries.

#### Political Agent H & B Vernon, ICS

Saudur — This is a small State almost urrout ded by the Di trict of Billary the Col letter of which is the Political Agent lits early history dates from 1728 when it was first senzed by an and stor of the present Raja a Maratha named Silbaji I so It subsequently became a vasal to the Peshwa aft r whose downfall men

I octave supports a force of 2.74

Todateal Agent A. I Forbos

Pudukottai.—This State is bounded on the language and the state is bounded on the language and on the east by Tanjoro in [M. R. R. A. Subraya Modlar avergal.] The by Madura and on the east by Tanjoro in [M. R. R. A. Subraya Modlar avergal.] The large times a part of the State belonged to the language and on the State belonged to the language and the State belonged to the langu force The most important staple crop is sholam Teak and sandal wood are found in small quantities in the forests

> The minerals of the State possess unusual interest. The hometites found in it are probably the richest ore in India An outeron near the southern boundary forms the crest of a ridge 150 feet in height which apparently con ringe 100 feet in height which apparently con-elists entirely of pure steel grey crystalline hema-tits (epecular iron) of intense hardness. Some of the softer cres used to be smelted, but the industry has been killed by the cheaper English iron. Manganese deposits have also been found in three places, and in 1911 12 over 83 000 tons of manganese ore were transported by one company

Political Agent A. F G Moscardi

### UNDER THE GOVERNMENT OF BOMBAY

very various units counted as Native Stales in India are under the Government of Dome av The characters the Nature of the Benday States is the great number of with puncipal ties the penin uli of Katha var alon con tains nearly two hundred parate billes The recognition of the c mauniciable jurisdic tions is due to the circamerance that the early Bombay admini trato were induced to treat ceed to by bronching albeid by terminal line through a humbly line as care into the to the or part exercise of card and crimmal line as the or part exercise and the comment of the or part exercise of card and exercise the property of the or part exercise and the comment of the or part exercise of card exercise the control of the or part exercise of card exercise the control of the or part exercise the or part exercise the control of the or part exercise the or larger principality the number state are con-tinually differing diministration. In Houbay as in Lentral India there are to be found every where the trues of disintegration and disor of left by the eighteenth century. In no part or India 1 there a greater van ty of frincijali ties. The hulk of them are of medern of hi the majority having been founded by Mulathi in the gen tal anamely for power in the fields of the matternth century by say in Rajont houses date from earlier time In cr. tin traces of ancient hirory are to be four a at Sachin Janjirs and Jararanan who can of a forcem and the desired from Al siman admiral of the Decart Pert will remain A few aborton defined below the best of the Dan, and the second of the desired below the first the Dan, and the desired below the second of the Dan, and the Dan and the hilly countr that iron the Main and the Narbada myers

The control of the Lombi, covernment is exercised through Political Agents whose positions and duties vary manis in with of the new rail and that he in our out of the men and the first and the start he is the course are confined to the man, out to the in out of the men out of the in out of the interval of the course o 11 3 bc cases they are in 1 d. then a tuer time in the admin trition while states whose rulers are namer—and the number of the is alway large -are incett managed by to t emment officer som of the states are ordinat to other State and not in i and not in hir ct relations with the British Covernment in these cases the status or the fudators of unatally gua anteed by Government Ih powers of the chief are rigidal of ly treat or cu tom and range downwards to a nore right to offert a venue in a share of a village without criminal or civil jurisdiction a in the case of the petty chick it hathiawar

The native States in the Bombas Presid no number 277. Area by 7r1 square mide. I op ulation (1911) 7 411 675. They are divided for administrativ purposes into the following agencies—Pijapur 4g no. 2 states. Cut h Agency 1 state Dhaiwar Agency 1 tates (Cambail) kaith Agency 1 state (Cambail) Kathawar Agency 1 states (Cambail Kathawar Agency 1 states (Janjira) Kothapur Agency 9 tates (principal state Kolhapur with 9 foudator) states Manika Agency 1 state (Janjira) Kathapur Agency 9 tates (principal state Idari) Nask Agency 1 states (Surgana) Palanpur Agency 1 states (Surgana) Palanpur Agency 1 states (Burgana) Palanpur Agency 1 states (Biori)

More than a half of the total number of the Tewa Kantha Ageney 62 states (principal rry various units counted as Native States State Rapplals) Saturn Agency states India are under the Government of Bomovy savastival Agrice 1 state sholapur Agency attents the Raturn of the Bentlay 1 state subkint Agrice 1 state (Khairpur) attent in figure 1 state in the great number of pit is principal short of rates in the great number of pit is principal short of rates and results of the man agency 1 state at the penint ultion that has varied better that it is not the more important States—

State	Area iu iuli iuli	Popula tion	Approx Revenue in lakh of rupets
Lhat ugar	2 460	60 441	4.
, Lutch	, მ16	و24 13 د	25
Dhr ingadhia	1156	<b>"</b> 9 <b>1</b> 43	1
Condal	1 0.4	161 946	1.5
Idar	1 669	811 ـ الـ	Ū
Jur i_a ili	3 474	4 4	26
Klairnui	6 050	-23 7%	15
Kollapur	3 10	433 441	ა7
VIII ALLAT	3 701	<b>Ալե</b> լ †ՄԻՍ	22
Palaupur	1 ->0	_21 _ 0	5
Paput.	1 17	1r L 85	4)

Bijapur Agency — I is compress the Satara ja\_inr or fath and the small tate of Duphlapur the latt r (which that is area of by quare inder the interaction in the grad part of the state of 1 ith to which it will like on the dinner of the present Ram the willow of the late buch On the annexation of Satara in 1849 Jath and Dathlerur like other Settata Jagur he ame I total in of the british to common the litter has more than once interfed to a just the promise affairs of the Tath Jagir and mecon equence of numerous acts of oppression on the part of the then ruler was compelled to a sum direct management from The Chief of Jath, who belongs 1874 to 1585 is a comparable cast in the Manufacture in the Manufacture in the Trust Chickend ranks as a first le sardar if is saved to smuch the hours a sariad of adoption and the hours ston follows the rule of prime, niture. The small State of Daplila puris managed by a Ream aided by her karbhari The greatern of the Agency a about 3 lakh thirty derived from land revenue. The Lath State pay to the British to recement R. 6400 per annum in his of a horse contin g at and 1 s 4 540 on account of pardeshmankly rights

Filitical Agent Jahangur Kankho ru Navroji Kabraji Collector of Lijanur

Cutch—The stat is lounted on the north at morth west be not on in tast by the falantur Agerey on the orth by the Principal of Rathiavar and the Gulf of truch and the south west by the Indian O tan Its area, axily we of the great saft much called the Ram of Cutch 1 "old square mile. The capital is Blud where the ruling Child (the Ram) Pis Highness Maha Hao Sir khingarii Saval Lahadur Gulf it idea brown its booked position the aposal chara terofits people their peculiar dialect and their strong faciling of person allowably to their ruler the peninsula of cutch has more of the elements of a distinct nationality than any other of the dependencies of Bombay The earliest bustone notices of the State occur in the Greek writers. Its modern

lustory dates from its conquest by the Sind | too B B & C I Railway at Anand tribe of baruma Raipute in the fourteenth cen The section of the Sammas forming the ruling family in Catch were known as the Jacque or children of Jaca The British made a treaty with the ctate in 1815 but there years after the conduct of the ruler made it necessary to occupy the capital and dipose him There is a fau proportion of good anable son in Cutch and wheat barley and cotton are cultivated Roth iron and coal are found but are not worked Cutch i noted for its beautiful emi roidery and cutted 1 noted for its beautiff can follow and its manufactures of the and cotton are of some importance frash the first carried by sea. In ruling chief is the supreme authority. A few of the Bhayada are marked with jurisdictional powers in varying digress in their own Latates and over the u own ryots A notable fart in connection with the administration of the turch State is the number and position of the Bhayad These are Rapput noble forming the brother odd or the lac Thry were granted a shan in the territorics of the ruling chief a provi ion for their maintenance and are bound to rurnish troops on an orner The number of these chils 1 1 7 and the total number of the Jacets title in Cutch is about 16 000. The British ruditing force having been withdrawn from bhuj the State new pays Bs 82,20 annuall, to the Lrit she of contract The military force con iste of about 1 000 in ad lition to which the re are som irregular infantry and the Bhay ais o old rurnish on ream ition a mixed force of four thousand

Poblical Agent Major R S Pettinger

Dharwar Agency—lin compressionly the and State of Savague line tounder of the small State of Savanur. The founder of the riguing tamily who are Mahomedans of Pathan on in was a jacindar of Emperor Aurangache At the close of the last Maiatha War the Nawab of Savanur whose conduct had been excep tionally loval was confirmed to his poses one by the Britis h Government. The State pay no tenhate. The remeinal curi is cotton. The tubute The principal city is cutton The at a is 0 square unlessand population 17 9th. The revenue is about one lakh. In present chief is Abdul Majidkhan Dierjang Bahadur

Political Agent J A G Walca I C 8

Kerra Agency -Ihrs includes only the State of Cambay at the head of the Gulf of the same Cambay was formerly one of the chief porte of ludia and if the Anlahada king iom At the end of the tharteenth e itues it is said to have been one of the ri last town in India at the beginning of the maternth century also it form done of the chift centres of commace in We tern India Lactoric were established realimbed a distinct state about 1.30 the founder of the present family of their being the last but one of the Mahomedan (overnors of Cupert the present New 19 is the Highies of I is the Might Name Land who I a sheal Might of I is a sheal Might of the Regions agreement of I is a sheal might of the Regions agreement of I is a sheal might of the Regions agreement of the same who is a shear of the th late Va tab Jaffar Ali k lan third on 21st lan ary 1912 having him a muoi In With is ther fore under Briti h Admini tration the State pays a tribute of Re 21 9-4 to the Entish Government Wheat and outlon ar the principal crops. There is a broad gauge har from Cambey to Petled, connecting with

Cambay to B B d C I italiway as anomal control to a first class state having full jurisdiction. The area of the State is 950 square only s population 72 658

Kathiawar Agency - kathlawar is peninsula or vesterr portion of the Province of Guiarat Bombay its extreme length a about 20 pules and its greatest breadth shout 160 unles the area being 2344s square miles Of the total about 2443 square miles with a (Opulation of ) 440 00/ is the territory forming the Political Agency subordinate to the Government of foombay established in 1822 having under it control nearly 200 separate of the views ou to divided among t them he the greater portion of the promosula. the kati in an option, is divided for administra i e purpo i li to i ni i tanti or divisions-Justawar Halu Sorath and Cohelwar-and the States have since 1865 been arranged in Kathawar has be a vested in the Political Agent ubordinate to the toyerument of Bombay In 1902 the designation of the Political Agent and he a istants were changed to those of a tent to the boscoror and Publical Agents at the practs Before 180. In the from the common court of the Agent to the towerhor established in 1831 to all the Darbars of the se eral States in the trial of hemone crimes interference with the judicial administration of the territorie was diplomatic not makes terial and the criminal jurisdiction of the hrst and second class chiefs alone was defined had and section case their above was usement to 1863 however the country underwent an troportant change the purishetion of all the thirs was classified and defined that of chiefs of the first and recon i classes was made plenary that of beset chiefs was graded it a liminfshing The four Publical Agents of the prants √.al resident in the four division of Kathiawar now exercise real sary pan diction with large civil and crimical powers Each Political the headquart is of the prant or division and store a submiduate or it and criminal powers b rise commat ases are committed by the leputus to the court of the Agent to the Gov ernor to whom also civil and criminal appeals

The Agent to the Governor is aided in this wor by an oth or known a the Political Agent and Judi ial Axistant who is usually a member of the Indian (18th Service Appeals from his lect ion he liret to the Governor of Bombay in Count in his a util capacity is puty that is also hip the higher

Agent to the Governor in Kathiastar J Sinden.

Bhavnagar -This State bee at the head and we total of the built of Cambay The Gohel I uputs, to which tribe the Chief of Bhaynagar b longs are said to have settled in the country about the year 1260 under bajakji from whose turce son-Ran in barann and bhabit-are ds inded respectively the chiefs of Bhavnagar Lathi and Palltana An intimist comparion was formed between the Bombay Government and Bhavnagar in the eighteenth century when the chief of that State took pame to destroy the pirates which infested the neighbouring was.
The State was split up when Gujarat and Kathicwar were divided between the Penhwa and the Gackwar but the various claims over almost their present ilmits by conquest but the magar were consolidated in the hands of it was left to the present ruler to develop list the British Government in 1807. The State resources to the utmost, and in the words of the British Government, Rs 3 361 8-0 as Peshkashi to Baroia, and Rs 2,888 as Zourlabh to Jun in recognised as a First Class State. The State gadh H H Maharaja Raol Shr Bhavangnji hay a tribute of Rs. 110 721. The child product of Rc. 21, 10 721. The child product is the supreme and final authority in ductar and grain and the child manuals. K.C.B.I. Is the supreme and final authority in the State. The general administration is conducted under His Highness a directions by the D war (M A Tar A ctunt Dewan) who I assisted by the Nath I wan the Promat Assistant and the Judicial As tant One noteworth a father in the administration is the complete separation of judicial from executive functions and the decentral atton of authority is another the authority and authority is another The authority and powers of all the Heads of Departments have been clearly defined and each within his own sphere is independent of the others being

sphere is independent of the others being directly repossible to the Dewan. The chief products of the State are grain cotton and sait. The other manufactures are off copper and brase vessels and chith. The Bhavnagar State Railway is 205 miles in length. and the management of it undertakes also the working of the Dhrangadhra State Radway for

of land (intersected by small stream ) which of land intersected by sman section, seemed to be consisted in fully and rocky ground where stone is quarried. The Chief of Dhrangadhra belongs to the Joha trube originally a sub-division of the Makvana family. This tribe is of soon of the Makyana family. Thus tribe is of great antiquity and is said to have entered Kathawar from the north (tablishing lisely first at Patri in the Ahmedabad Instrict thence moving to Halvad and finally setting in its present seat. The greater part of the trint tory was probably americal at one time by the Mahomedan rulers of Gujarat Subsequently during the reign of the Emperor Aurangaib -170') the subdivision of Halvad, then halled Muhammadnagar was restored to the Jania Jania) The petty stream than Limbdi Wadhwan Chuda Sayla and Than Labhtan in Kathawar are of Shebots from Dhranga ilira and the house of Wankaner claims to be descended from an elder branch of the same race His Highness the Maharana Shri Chanshyam ship is the ruling chief, who is the head of the Jimaa halput family The State pays a tribute of Rs. 40 671 to the British Government and Re 4 006 to Junagadh State The admi pistration is conducted under the Maharaja a directions by the Dewan (Vansinh S Jhala) The principal crops are cotton and grain The Capital town is Dhrangadhra a confided town 5 mites west of Ahmedabad

embroidary Gondal has always been pre-embrent among the States of the class for the sigour with which public works have been prosecuted and was one of the earliest pioneers or railway enterprise in Kathiawar having untuated the Phasa Dhorail line it subset quently built other lines in partnership with other Asive States in Kathiawar The Cupital is Gradal a fortified town on the line

between Rankot and Jetalsar

Junggadh State - This State has an area of 3 284 square tules and is bounded on the of 3 254 square times and is bounded on the west on the by the Bards and Halar and on the west and south by the Arablan Sea. The river Saraswati famous in the secred annals of the Hindus passes through the State A densely wooded tract called the Gir is contained in the State and is well known as the last haunt norking of the Dhrangardhra State Railway for the State and is well known as the last haunt a length of 21 miles. The capital of the state in India of the hon. Until 1472, when it was is the town and port of Shavingar which has someoned by Sultan Mahmud Begra of a good and safe harbour for shipping and carrier on an exten are trade as one of the principal narkets and harbours of export for cotton in Kathiawar Bhavingar supports 300 in perial service Lancins and 252 Infantry or authority of the Mighal Vicercy of Gujarat Armed Pokee

Darsingadhra State is an uneven tract Sher has all took his authority in Gujarak. the Mughal Governor and established his own role The ruler of Junagadh first entered into engagements with the British Government in 1807. The Chief bears the title of Nawab in 1807. The Chief bears the title of Nawab the present hawab being tenth in succession from the founder of the family He is His Highness Mahabat Khan who was born in 1900 and "succeeded in 1911. The agricultural products are cotton shipped in considerable quantities from versaval to Bombay wheat and other trains. The coast line is well supplied with fair weather harbours. The State pages at the tend is \$\mathbb{R}\_{\text{the } \eta}(\text{PR}\_{\text{the } \eta}(\text{R}\_{\text{the } \text{R}\_{\text{the } \text{R}\_{\ pays a tribute of Rs 6.604 to the Gackwar of Barton and the British Government but the Naws requires contributions, called zor talbi amounting to Rs 92421 from a number of chiefs in hathiawar—a relic of the days of Mahomedun supremacy. The State main tains 100 Imperial Service Lancers pital is Junagadh attrated under the Girnar and Dater hills which is one of the most pic turesque towns in India while in antiquity and blatorical interest it yields to none. The Upar ket or old citadel contains interesting Bud dhist cates, and the whole of the ditch and neighbourhood is honevcombed with caves or their remains. There are a number of fine modern buildings in the town

#### Administrator H D Rendall 103

Soudal State—The chief of Gondal is a Raiput of the Jadeja stock with the title of the Guit of Cutch has an area of 3,791 square Thankir Shihb the present Chief being Sir miles. The Jam of Navanazar is a Jadeja Rhagyat Sinhil 6012 The early founder of Raiput by caste and becomes to the same the State, Rumbboji I, had a modest existe to the same the Rao of Cutch. The Jadeja of 20 yillages. Kumbboji II had a modest existe to the Rao of Cutch. The Jadeja of 20 yillages. Kumbboji II had a modest existe to the Rao of Cutch. The Jadeja and dispossessed the ancient family of Jothwas

founded in 1500 The present Jam Samb is the well known circketer H H Jam Sahlb Shr! Ranjitsinhiji Vibbaji who was born in 1872 and succeeded in 1900. The principal products are grain and cotton shipped from the ports of the State. A small pearl fishery ties off the coast. The State pays a tribut of Rs. 1 20 093 per annum jountiv to the British for warment the Coalester of Research and the second and the seco Or As 120 tab per annual Johnson to the Diffich Government the Gackwar of Baroda and the Nawab of Junagadh The State maintains a squadron of Imperial Service Lancers The Capital le Navanagar (or Jamnagar) a flourishing place, nearly 4 miles in circult situated , miles east of the port of Bed. Population 4:400 Revenue meanly Rs 40 lakhs

Administrator during the absence of Hi Highness at the front Major Borthon

Dentan K B Meraanti Pestonii

Kolaba Agency - This Agency includes the State of Janlira in the Konkan a country Agency includes covered with spurs and bill ranger and much intersected by creeks and backwaters the ruling family is said to be descended from an Abve-inian in the survice of one of the Vizam Shahl kings of Ahmednagar at the end of the The mot noticeable point fifteenth rentury in its bistory is the successful resistance that it alone of all the states of Western India made against the determined attacks of the Marathas The British on succeeding the Marathas as masters of the Koukan refrained from int turing in the int mal administration trom int turing in the list tital administration of the State The chleft a Summ Mahomedan by race a bids or Abyssylan with a title of Rawab He has a anal guaranteeling succession according to Mahomedan law and pays no tribute Till 1888 the State enjoyed sin gular independence there being no Political Agent, and no interference whatever in its internal affairs. About that year the rial administration of the chief especially in matters of police and criminal justue became flagrant these branches of a iministration were in conthose branches of a fininteration were in consequence taken out of his hands and veiled in a Political Agent. The private ruler is of the Nawab Sili Sir Aband Ahran CLIR who was born in 1882. The area of the Site is 37° square miles and the population of the Site is 37° square miles and the population of the Site is 18° square miles. The square squar lution 101 120 The

probably a branch of Jata) then established 6 lakks The State maintains a military at 6humii The town of Navanagar was force of 228 and an Imperial Service detach founded in 1540 The present Jam Sahib is in not 0 29 The capital is Janjira 44 miles the well known crickoter H H Jam Sahib south of Bombay Island The Chief exercises Shri Ranjitsinhji Vilbaji who was born in [10] powers in Criminal Civil and Revenue is and succeeded in 190. The principal matters of the State inclinding Jatarabad, 1 Dudency of the Janjira State in Kathlawar He is entitled to a dynastic salute of 11 guns

He is engine to a uvitatity salor, of 11 gains.

Kolhappur Agency — Kolhappur is a State
with an area of 3 217 square miles and popula
thon of 8.3 441 Subordinate to Kolhappur
are time feudatoris of which the following
five are important. Vishingarb Bavia, Kagal
(sentor) kapsu and Irhalkarunii. The present (Scientific States and Chattagath Indopression viling chief Sir Shahu Chhattagath Maharaja OCSI GCLE OCTO trace his descent from a younger son it Shivall, founder of the Maratha power The prevalence of plracy from the kolhapur port of Malaga compelled the Brimbay Governm at to send expeditions against Kollmpur in 1,60 and again in 1792, when the Rain agreed to give compensation for the to see which British mentants had sustained since 1/8 and to permit the establishmert of factories at Moivan and Aphunur Internal disen lone and wary with neighbour ing States gradually weakened the power of Kolhapur In 1812 a treaty was concluded with the Britth Government by which, in return for the cosmon of certain ports the kolbapur Raja was guaranteed a ainst the attack of foreign powers while on his part actas of the regard to ab tain from hostilities with the engaged to ab tain from hostilities with other states and to refer all disputes to the arbitration of the Pritish (overment The prin Iral articles of preduction are rice jawar and sugar-cane and the manufactures are coarse cotton and woollen cloth pottery and hard Ware The State pave no tribut and supports a military force of 6.00. The mine feudatory estates are alministered by their bolders. Except in the case of two whose hold is are minors Lolhapur proper is divided into six pithus or tahikas and four mahals and is man axed by the Maharaja who has full powers of life and death. The Southern Mahratta Rallway Enses through the State and is connected with Kolhapur City by a line which is the property

average revenue is Lt Col F W Wodehouse CIE

Southern Maratha Country States -Th igency consists of the following eight States -

Name of 4t	ate	84	ca in quare dies	Population.	Eribute to British Gust exment	Аметаде гечепце
Sangli Miraj (Senior) Miraj (Junior) Kurundwad (Senior) Kurundwad (Junior) Jamkhandi Mudhol Ramdrug	Total		1 112 339 210 183 114 524 868 169	227 146 80 281 20 490 35 375 34 084 100 804 62 881 38 610	Re 1 36 000 12,567 7 388 9 618 20 516 2 871	Ra. 10 75 756 3 12 980 2 55 263 1 54 309 1 73 660 9 41 106 3,52 916 1,50 729

State of ider covers more than half the term tory, elven other States are if some importance and the remainder are estates belonging to Ratout or Loi Ibakurs oure the lawiese fundatories of Larods and still requiring the auxious supervision of the foll those Officer H H Major General Fir Parish estimed the gade of idar in June 1911 and was country for the present dynasty now entor namerous petty chiefs or bhumna who have held considerable e tates from the time of the Raps of Idar or earlier and are und r no abil gation of service. In revenue of the State for North in Cuparat and Cutch are shared by the Maharaja with these feudal. Rewa Kantha Agency -1his Agency with the f The Mars spare is R p. 4. an area of 49.8 square infles and a population annually on account of Euchdi and oth r of 805 1999 comprises of States of which Raj annualis on account of Kitchdi and Pitt in the Comprise of States of which Raj Raj Hake from its ubordin its stream that the first state of the Main heart and the rest are exconded and other and other and part R 1340 is trought of the Gas and part R 1340 is trought of the Gas and part R 1340 is trought of the Gas and part R 1340 is trought of the Gas and part R 1340 is trought of the Gas and the rest are exthere petty of the Gas and part R 1340 is the contract of the contra

Political Agent—Lt tol J R B Grah m | The following are the measurement of population for the principal States — Carter

Nusik Agency - This con a to of one State Surgana, I ling in the north west corner of the Nasik Di trict Surana a an area of the ruling cliud is Tratagray Shankarran Dish mukh who is described from a Marath-Maratha Pawar lamily He riles the state ullect to the orders of the foll-ctor of Naik The revenue of the State is about Y 23 060

Palanpur Agency -- 1his group of States in Gularat compages two first class State The states and petty taking the total area I of the states and petty taking I is total area I of 393 equere inlies and the proposition is 515.01. The The gross we much is about 141 hakla territory reduced in the Agency has like the more central part, of Gojarat passed didin-historical times under the swal of the differ-ert Bajput dyna i of Anhilyade the carly Khilji and Tughlak Shahi dyna ties of Belli The Market State the Mugh of Emperors, the Mahamata and latte the Belth hame alone takes its almost all the Rewa Kantha lands except the Mahamata and latte the Belth hame alone takes its same is unfer the rule of H H Nawat hamata that is Koll and Billichieft. In the Sher Mahamanad klam a cle who is confided the Dewan of Palo pur He is leve needed from the Lohands an Alghan tribe who appeared in Gujarat in the footseenth century. The connection of the British Correnment with the State dates from 1819 in which year the base of the koil and Bhill cheeft in the connection of the British Correnment with the State dates from 1819 in which year the leaders. The first of the present States to be that we murdered by a budy of nobles. Two light roads from Almedabad pass through.

Political Agent—J P Brander

Mahi Kantha.—This group of States has the State and a considerable trade in cotton a total area of 3,124 square miles and a population of 412 631. The revenue is about 14 tast maintains a military force of 600 and pays takes The Agency consists of the first class ribbate of 88 38 000 to the Gawar of Baroda. State of Idar and 62 small States. The Valve The capital I Palanpur situated at the junc tion of the Palanpur Deesa Branch of the B B a C I Railway It is a very old settle-ment of which mention was made in the eighth 'en/ury

Polytral Agent-Major N S Coghill

Radhannur is a blate with an area of then Officer H H Major to neval in Parish Singh, a Rajout of the Rathor Cian having 1 100 square nile, which is now held by a branch been appointed regard to the State of Joinpur of the Bab faunt who stace the reign of Huma-estored the radio I day in June 1911 art 1 was 1 unit have alway been prominent in the annals raigned the gade of idar in June 1941 and has succeeded by his adopt deer Daniel (mi) of (uparat the present chief is H. H. Jalai Many relatives of the Maharija and fonds the Maharija for capital citines, without permission from the Politicit Agent. The State maintains a military fore of 100. The principal products are often wheat and grain. The capital Radhangur town a considerable trade centre for North m (uparat and Cutch

an area of 4 9 % square miles and a population

The following are the statistics of area and

Taluks or Petha	miles eduate trea in	Popu tation
		_ <del></del>
Balaviner	180	40 569
Haina	813	115 350
Chhota Udslpur	8 3	103 639
Lunavada	368	75 998
Narufot (Jambhughoda)	14.	8 455
l altuble	1 517	161 588
Sunth Otir Jurisda tional States	394	59 350
Civil Stations and Thans	639	100 126

Rajpipla.—This State lies to the south of Satara Jagira.—Under this heading are the Narbada. It has an area of 1,517 square grouped the following six States. piles and largely consists of the Rapipla Hills which form the watershed between the Narbada and Tapti rivers. The family of the Itapa of Baipipla H. H. Maharana. Shri Vijayasinjhi is said to derive its origin from a Raiput of the Gobel dan. The State pays an annual tribute of Rs 50 000 to the Gackwar of Baroda Cotton is the most important from in Baroda Cocom is the most important crop in the state. In the south there are valuable teak forests. The capital is Nandod which is connected with Anklusvar by railway built by the State

State	Area in sq miles	Popu lation	Revenue in lakha
Aundh I halfau Bhor Akalkot Jath Daphiapur	701 897 925 498 884 96	68 995 55 996 144 601 89 082 69 810 8 833	3 2 5 4 2

These were formerly feu latery to the Raja of Satara. In 1849 five of them were placed under the Collector of Satara and Akalkot under the Collector of Sholapur Subsequently the Jagir of Bhor was transferred to the Collector of Poons and lath and Daphlapur to the Bouthern Mahratta country The last (we are 10% under the Collector of Relapur The ruling chiefs are as follows -

		<del>-</del>
State,	Ruiing Chl is.	Tribute to British Government
Aundh	Bha anray Shrimveerso alsos Baba Saheb Pant Pratinidhi.	Ru
Phaltan	Mudholiray Janray Nimbalkar	9 600
1 hor	H II Shankarray Chimnan Pant Sachiv	4 684
Akalkut	Fatchshih Shihai Raje Dhon le aleas Bapu Sali L	14 592
Juth	Lauray Amritray alias Aba Sanch Daj lile	6 400
Daphlapur	Ram Bal Sah t Daphle widow of Lean buildratas Venkatras Chason Dephi	

926 square miles and populate n of \_1" 240 | tion of \_ The average r venue is I lake It lies to the north of the Portuguese territory of Gos the general a peet of the country being ex-ticm is picturesque Farls Inscription take the history of the State back to the sixth century the ports on this oat swarm d with piral and the country was a ry much diturbed. The precede chief is kh m was not a disa Bapa The ! sando Bhonale. Rie is the principal crep ofthe State and it is rich in valuable took by stards Marathas of the State are in ounce troop for the Indian Army and supply neutral for the entire that all seven the adjusted but all trick. The supply neutral is Savant and also colled Suntar Ladi or shufty Ladi

Sholapur Agency —This contains the State of Akakor which forms part of the table land of the Docam. It has an nice of 498 quartudes and a population of 89.08. In the the beginning of the eighteenth century the Akal ket t rritors, which had fermerly been part of the Musulman kingdom of Ahmednatar was granted by the Raja of Satara to a Maratha

The Sukkur Agency —This includes Khair , Political Age pur State, a great alluvial plain in Sind. 1t C 8 Campbell

Savantwadi — This State has an trea it the an area of 00 square miles and populate not 1.1°240 the sevence recence is lacked it lies to north of the Portuguesc territory of total north of the Portuguesc territory of total present clue a peet of the country bruggers to all performs the Faily inscription taken history of the State back to the sixth centry of the fail of the fail of the Alipora dynasty of the state back to the sixth centry of the fail of the Alipora dynasty of the fail of the present listory of the fail of the defeated and the present listory of the present listory of the defeated and the present listory of the present self a Rais or ruler of and and subsequently ht net hew Mir Sohrab Khan Fulpur founded in helpew air source And Lapur family In the kinaupur branch of the lalpur family In 10. the milliduality of the kinaupur State as aparats from the other Lalpur Mire in sind was recognized by the British Government in a tnaty under which the use of the river Indus and the roads of sind were coursed to the Britth hinchi products of the State are fuller earth carbonate of soda cotton wool earth carbonate of soils cotton wool and grain the manufactures comprise extent and grain the manufactures comprise extent fabres and various kinds of the roare and mutal work. The Railway from Hyderabad to Point runs through the whole length of the state. The rule of the Mir is patriarchal but many chante have been made in recent years hitroducing greater regularity of procedure into the administration. The Waster bardar the amestor of the present chief sub an officer leut from British service conducts set to the supply of a contingent of horse In the administration under the Mir The State Just to the supply of a contingent of norse in 1849 after the annexation of sacra, the Act all supports a military force of 564 including an 1849 after the annexation of sacra, the Act supports a military force of 564 including an 1849 at 1849 at

Surat Agency -This is a	ILams	group of	three second	class States	under the	superinten
dence of the Collector of Surat	W E	' Hudson				

State.	Italing Chiefs	Area in sq miles.	Popula- tion
Dharampur Banada Sachin	Maharana Shri Mohandeyi Naravandevii Maharaval Shri Indraembii Pratapambii Nawab Sidi Ibrabim Muhammad Yakut Khan Muba zarat Daula Vasrat Jung Bahadur	704 215 42	114 995 44,594 18 903

Tribute is paid to the British Covernment of of the first Mahomedan invasion of the Dec-

810 square miles and a population of 53489 has

The joint revenue of these states is 10] lakhs and revenue of 2 lakhs. Up to 1294 the period Tribute is paid to the British Covernment of of the first Mahomedan invasion of the Decrease. 9 154 There is also attached to this can Jawhar was held by a Varii not a Koll Agency a tract of country known as the Dangschild the second of the second Jawhar by a device similar to that of population of 29 30; and a resume of Dido when he saked it rand received as much Rs. 30 000 The country is divided into 14 Dangs, land as the hite of a bull would cover. The or States of very unequal area each under Koll chief cut a hide into stripes and thus the purely nominal rule of a Bhild chief with the title of Raja Naik Pradhan or Power Chief is Raja Krishnashah Patangshah when Thanas Adaptay — Pila included, the Nath, admits iter the State session by a Krishnashah when the purely included, the Nath, admits iter the State session by a Krishnashah when the purely more than the purely more present that the purely more present than the purely more present that the purely more present than the purely more present that the purely more present that the purely more present that the purely more present the purely more present than the purely more present that the purely more present the purely more present that the purely more present the purely more present that the purely more present that the purely more present that Thana Agency—This includes the state and it is half Arishnashed by a Karbhari of Jawhar in the Thana Detret on a plateau under the apper slain of the follector of Thana, above the Konkan plain. It has an aria of S M Tharu ha who is Political Agent of the

#### UNDER THE GOVERNMENT OF BENGAL

Cooch Behar —Thi State is a low line prestige of the fippera Cajas dates back plain in North Bengal It has no area of 1.30 to the fiftenth contury and a mythical account platin in North Bengal 11 has an area of 1 30 equare mules a population of 593052 and revenue of 27 fakhs The ruling cmill H H Maharaja itendra Varavan Bhup Bahadur who succeeled in 1943 His family a of Tibetan or Dirivilian origin He administers the State with the seas-stance of the State Council Cooch Behar once formed part of the famous kingdom of Kamarupa Intib of the knoons kingdom of Kamarupa I rithen comersion with it began in 17.2 when the succession was disputed and the assistance of the East India Company mysted The chief products of the Star are rise jute and tobacco. It maintains a military force of 194. The espital is Cook Behar which is reached by the Cooki Behar Statt. Bellivax a bran haven the Eastern Bengal butto Palyon. from the Eastern Bengal butto Rahway System.

Bill Tippera —This state has to the south of the district of Sylhet and consists largely of hills overed with bamboo jungles largery of this an area of 4 086 square miles and a population of 920 813. The revenue from the State is about 10 takhs and from the Zi mindari in British territory a slightly smallr sum. The the traff bolog carried chiefe by water The present Raja is Birendra Kishore Deb farmar administration is conducted by the Mirister Mankya who is a Kebatriva by caste and at Agantala as ited by the Dewan comes of the Lunar race. The military Political Agent 1 Bartle 1 is

to the fifte ath century and a mythical account of the State takes the history to an even earlier date Both as regard its constitution and its relations with the Pritish Government the State differs alike from the large Native States of India and from those which are classed as tributary Beaders being the rule of Illi liprer the tag and he lib a large landed proper called thakis Rosinabad situated in the plan of the Dietrik of Tippers Aso kimit and Sylhet In estate covers an area of 1210 square miles and is held to form with the State an indivisible Raj Disputes as to the right of succession hav occurred on the occasion almost every variancy in the Ital producing in times gone by disturbances and domestic walk and expecting the inhabitants of the hills tus non di order and attacks from the Kukin, who were always called in as auxiliaries by one or other of the containing parties. The principles which is in succession to the state have resently however been embodied in a small which was drawn up in 1994. The other product of the state are rice and cotten

#### UNDER THE GOVERNMENT OF BIHAR AND ORISSA.

Under this Government there are the Chota irrottler of the old Jungle Mahais the Thakur Magpur political States of Klarsawan and of klarsawan and the Kunwaw of Sarakela Serakkela, and the Corlesa feudators States 24 in number. The total area is 29 548 super relating to the treatment of fugative rebels miles and the total population 5942 272. The revenue is about 54 lakis. The inhabitants are hill men of Kolarian or Dravidian origin and their condition is still very primitive. The chief of Kharsawan belongs to a junior branch was granted in 1899. He exercises all admit of the Porahat Raja's family. The State first same under the notice of the British in 1794 stoner of Singhburn and the Commissioner when in consequences of disturbances on the Under this Government there are the Chota | frontier of the old Jungle Mahais the Thakur

way runs through a part of the State The garh, it is alleged, was founded by a Rajput adjoining State of Seraikela is held by the from Rewah, and a selon of the ame family was the ancestor of the present house of Khand-

Orissa Fendatory States.—This group of 22 dependent territories is situated between the Mahanedi Delta and the Central Provinces and forms the mountamous background of Orissa The names of the individual States are Athgarb Taicher Va urbbanj Nilgur Koonjhar, Pal Lahara, Dhenkanal Athmalik Hindol Narsinghpur Baramba Tigiria, Khan para Nayagarh Ranpur Daspalla und Baud fo these there were solded in 1995 the following States Bamra, Rairakhol Sonpur Patna of Kalabandi from the Central Provinces and Gangrur and Bonal from the Chota Nigpur States The total population in 1911 was 718 038 with a revenue of about 45 laking

TW8 038 with a revenue of about 45 lakks like Tributary. States have no connected or authentic history. Comprising the western and hilly portion of the province of Orissa thory were never brought under the central government but from the earliest times consisted of numerous petry principalities which were more or less independ nt of one another. They were first misbited by aboriginal laces why were first misbited by aboriginal laces why were first misbited to the one hand and with the wild beasts of the forests on the other. In course of time then till retructs were penetrated by Arvan advictures who gradually overthe with tribal choice and established themselves in their place. Tradition relates how these darms intrilopers, most of whom were Rapputs from the north come to Puro on a pinglimary and authentic of Mavurbhan) over 1300 years ago and was succeeded by the iddes on while his econdison selzed Keonjhar. The chiefs of Baul and Daspalla are and to be descended from the same stock and a Rapput origin is also claimed by the Bagas of Athimalike Varsingh pur Pal Lahara lacher and Tugira. Maja

garh, it is alleged, was founded by a Rajput from Rewah, and a selon of the same family was the ancestor of the present house of Khandram. On the other hand, the chiefs of a few states such as Athgarh Baremba and Dhen kanal, owe their origin to lavourites or distinguished servants of the ruling sovereigns of Orissa. The State of Ranpur is believed to be the most ancient the list of its chiefs covering a period of over 3 600 years. It is note worthy that this tamily is admittedly of Khondorigin and furnishes the only known instance in which amid numy vicisatiduses the appremacy of the original settlers has remained in fact. The States acknowledged the amortiant of the paramount power and were under an implied obligation to render assistance in resisting invadors but in other respects neither the ancient kings of Oris a nor their successors, the Mughals and Marsthase ever interfered with their internal administration. All the states have annals of the dynamics that have ruled over them but they are made up in most part of kyrnl and fiction and long genes legical tables of doubtful accuracy and contain very few factures of general interest. The Entitle Conquest of Orissa from the Marsthase, which took place in 1903 was immediately content to original response to the chee's of which were the first to not the Tributary Stat the chee's of which were the first to the contents.

lo inter into treaty engagements. The staple crop in those States is like. The forests in them were at one time among the best timber producing tract in India, but intol lately forest conservance was practally unknown. Int. States have formed the subject of nequent tiguisation of a special character. The relations with the British Government are governed mainly by the sanada granted in similar terms to all the chiefs in 1894. They contain the character character in the right, prividing for the settlement of boundary disputes and indicating the nature and extent of the control of the Political agent who is also the Commissioner of the Os a Prission.

Political A sent L F B (Obden Ramsay

#### UNDER THE GOVERNMENT OF THE UNITED PROVINCES.

Three Etate Rampur Telm and I mare are included under the Government --

btate	Area	Popu	Bevenue
	Ng Miles	lation	un laki
Rampur Pehri (Garhwal) Penares	892 4 200 988	აშ1 898 <i>2</i> 99 853	4)

Rampur in Rohilkhand is a levil fittlet tract of country. Its early largery is that of the Omith the State wars obtained the title of Nawab and the greater part of Rohilkhand in 1760 subsequently the State was divided amongst bis sons and on the cession of Rohilkhand to the British Government in 1891 the family lakes Are Soliding Rampur were confirmed in their coercians. The Kawab at the time of the Yuliny received a great of land for his unswring Rohilkhand

ioyalty the present Nawab is Colomb H H bir Haimed All Ahan Bahadur govin Govo A no who was born in 1875 and succeeded in 1889. He is the sole surriving representative of the Rohlid stower and is the presentative of the Rohlid stower and is the presentative of the Rohlid stower and is the president of in the United Provinces. Since 1880 a native official or the United Province called the Minister has been I into the State. He presides or really splattice Committee first found in 1902. The principal groups are make wheat no and sugar case. The intest important industry is the weaking of covering the State of the State. Three signations of cavalry are maintained of which two 317 strong are Imperial Service Lancers. The local force includes about 1 900 infantry, and 200 sittlicry. The capital is Rampur on the lett bank of the Kod. Sol miles by rall from Calcutta. Income, 45 lakbs. Area. 892 square milks. Population 531 217.

Pointeed Agent The Commissioner of

State (or Tehn Garhwal)—This State has entirely in the Himalayas and contains a tangled series of ridges and spurs in diating from a lofty series of peaks on the border of Tibet. The sources of the Ganges and the Jumns are in it. The early history of the State is that of Garhwal Distret, the two tracts having formerly bear ruled by the same dynasty. Parduman Shah the last Raja of the whole territory was kinled in battle fighting against the Garkhas but at the close of the hepsilese War in 1910, his son received from the British the present State of Tehri During the Mutiny the latter rendered valuable assistance to Government. He died in 1859 without issue and was succeeded by his near relative Bhawant. Shah and he subsequently received a sanad giving him the right of adoption. The present Raja Sir kirti Shah Karsi was installed in 1894. The principal product i mee grown on terraces on the hill sides. The State torests are very valuable and there is considerable export of timber. The Raja ha full powers within the state executive authority being vested in an officer called the Wazir A millitary force of 113 strong is maintained. The capital is Tehri the summer capital being Pratannegar 8 000 feet above the see level.

Political Agent the Committen Configuration of plenary criminal jurisdiction within the Benares was one Mansa Bam who entered and Luropean British subjects and of a right the service of the Governor of Benarce under the Nawab of Oudh in the early eighteenth (could be the Nawab of Oudh in the early eighteenth (could be the Discounties and of the Discounties of the Discounties and of the Discounties of the Discounties and of the Discounties of the

Raja (het Srigh succe ded him but was ex own g to the maladmini tration of the estate which had a cumulated under the Raja of B nar s at agreem at was concluded by which the lands hid by the Raja in his own right were a pust d from the rest of the province of which he was imply admiristrator. The dir it control of the latter was assumed by direct control of the latter was assumed by the Givy rim in and an annual income to one likh of rup is was assured to the Raja, while the for our constituted the Domains Will in the Domains the Raja had rivenue power sindly to those of a Coll ctor in a Birth in Ditting which were digated to certain of his own officials. There was thus constituted what for over a century was anown as the Family Domains of the Maharaja of Benares On the 1st of April 1911 these Do mains became a State consisting of the parganas of Bhadohi (or konrh) and Chakla (or kera Mangraur) with the fort of Bamnagar The Maharaja s powers are those of a ruling chief ubject to certain conditions of which the most important are the maintenance of all rights acquired under laws in force prior to the tran for the reservation to Government of the control of the postal and talegraph systems of plenary criminal jurisdiction within the and Luropean Briti h subjects and of a right

### UNDER THE GOVERNMENT OF THE PUNJAB

Under this Government there at 34 states | varying considerably in size and importance area, 86 582 square index Population (1911) 4,212 794 Revenue about 51 000 000

The Pungb states may be grouped und r three main classes in he hill states 23 in number he among the Pungb Hughayas and are held by some of the most ancient Rapput milles in all India Along the western hill of the southern border hes the Muhammadan state of Bahawappu in the remaining States including the Sikh principalities of Patiala Jind Nabha Kapurthila Faridkot and Kalsas and the Muhammadan chreships of Mater Kotlas, Patandi Loharu and Dujana he east of Labore, and with mugnificant exceptions occupy the centre of the Castern plains of the province

The list below gives details of the area population, and revenue of the more important

Name	Arca square mules	Popula tion	Revenue Approx in lakhs
Baha walpur	15 000	750 394	27
Chamba	3 216	1348 L	7
Faridkot	642	130 374	8
<b>Tind</b>	1 259	271 728	15
Kapurthala	630	268 244	25
Maler Kotla	167	71 144	4
Mandi	1,200	181 110	
Mabba	928	248,892	15
Patinia.	5,412	1,407,659	72
Straur (Nahan)	1 198	188 564	8

Bahawalpur—This State which is about 300 miles in length and about 40 miles wide is divided lengthwise into three treat strip of those the first is a part of the Great Indian Desert the central tract is chefly desert not capable 41 cultivation identical with the Bar or Pat uplands of the Western Punjab and the third a fertile alluvial tract in the river valley is called the Sind. The ruling family laims decent from the Abbasid Khalifs of Egypt. The tribe originally came from Sind and assumed independence during the dismombranent of the Durran empire. On the set of Kanjit Singh the Nawab made several applications to the British Government for an engagement of protection. These however were declined although the Treaty of Labor. In 1800 whereby Ranjit Singh was confined to the might bank of the Butte; in reality effected his object. The first treaty with Bahawaipur was negotiated in 1833 the year after the treaty with Ranjit Singh for regulating traffic on the ludus. It secured the independence of the Nawab within his own territories, and opened up the traffic on the Indias and Suitej. During the first Afghan War the Nawab rendered as sistance to the British and was rewarded by a grant of territory and life perison. On his death the succession was disputed and for a statue the State was in the hands of the British. The present Nawab is H. H. Rawab Sadiq Mohammad Kham who was born in 1904 and succeeded in 1907. During his minority the chief crops are wheat, rec and millet. The

Political Agent Mujor A C Liliott

Chamba -This State is enclosed on the west and north by kashmir on the east and south by the British districts of Kangra and trurdsspur and it is shut in on almost every sude by lotty hill ranges. The whole country is mountainous and is a favourite resort of portunen. It possesses a remarkable series of topper plate inactiptions from which its chromules have been completed.

Founded probably in the sixth century by Marut a Surajban i Rajput who built Biahma pura, the modern Brahmapur Chamba was ex-tended by Meru Varma (680) and the town or (hamba built by Sahil Varma about 920 state maintained its independence until the Moghal conquest or India

Under the Moghals it became tributary to the ompire, but its internal administration was not interfered with and it escaped almost unscathed from bild aggression. The State first came under Lutuh influence in 1846 the part west of the have was at first handed The part west of the havi was at first handed over to hashmir but subsequently the boundaries of the State were fixed as they now stand and it was declar of independent of hashnir. The present chief is H. H. Raja bir Bhure Singh K.C. C.I.E. who was born 1809 and succeeded in 1904. The principal in 1869 and succeeded in 1904. The principal crops are rice matter and milkts. There are some valuable forests which wire partly I and but the management of them has now been retroceded to the Chamba Durbar. The are little worked The principal load to Chamba town is from Lathanlot, the terminus of the Amritar Pathankot branch of the North Western Radwis The Roja is head of the judicial department and is usered by the Warri Warrats Chamba tewn on the right hank of the Rayl contain a number of inte-recting temples of which that of Lakahmu harayan lating possibly from the tenth cen-tury is the most famous

Faridkot — The ruling family of this sandy level tract of Lind belongs to the Sidhu Burar clan of the Jata and is discended from the same stock as the Phulkian houses. Their occupation of Faridkot and hot Kapura dates from the time of Akbar though quarrels with the surrounding Sikh States and Internal dis semanns have greatly reduced the patrimony.

The present cluef H H Raja Bril Indar Singh Bahadur, was born in 1696 and succeeded in 1906 During his minority the adminis-tration is carried on by a council under the presidency of an Extra Assistant Commissioner The State supports one company of Imperial ervice Supports

Inhore Karachi branch of the North Western kian States, the most important of the Cistate Railway passes through the State Sutiej States. This area is the ancectant postile States are properly an Imperial Service Siliaday session of the Phulkhan houses. It lies mainly ture desired in the state of th while it's southernmost tract, round the ancient town of Jind claims to lie within the sacred himits of Kurukahetra. This vast tract is not. however the exclusive property of the States for in it he several islands of British territory and the State of Maler Lotis enters the centre of its northern border. On the other hand the States hold many outlying villages surrounded by British territory

> The hi tory of Jind as a separate State dates from 176; when the confederated Sikhs cap tured whind town and partitioned the whole Jud Province The Maharaja of Jud, H H Vaharaja on Frankrich was born 1879 and succeeded in 1887. He is descended from the ancestors of the Philkian family During the Sikh War and the Mutmy the Raja of Jind was of great service to the British and wa rewarded with a grant of nearly 600 square mules of land the principal crops are wheat, barley and gram the only industries of im barley and gram portance are the manufactures of gold and solver ornaments leather and woodwork and coiron cloth The capital is Sangrur which is crinicated by a State Railway with the North Western Railway. The administration of the State is divided between four depart-ments under heads of departments which form together a State Council controlled by the Maharaja

Kapurthala -The State consuts of three detached pieces of territory in the great plain of the Deab. The ancestors of the chief of kapurthila at one time held possessions both in the cis and trues sutley and also in the Barr Doad In the latter lies the village of Ahlu, whence the family springs and from which it takes the name of Ahluwaha Some of these States were confiscated after the first Sikh War and when the Juliundur Doab came under the dominion of the British Government in 1-16 the estates north of the Sutle) were man.tained in the independent possession of the Abluwalus chieftsin conditional on his paying a commutation in cash for the service engagements by which he had previously been bound to funnt Singh The Bart Doab ea tates have been released to the head of the house in perpetuity the civil and police juris diction remaining in the hands of the British authorities For good services during the bluting the Laja was rewarded with a grant of other States in Oudh in which however he (xerrises ro rating powers though in Outh he is, to mark his superiority, addressed as Raja i Rajagan The present thief is H H Maharaja Sir Jagatjit Singh Bahadur G 081 who was born in 1872 and succeeded in 1877 He was granted the title of Maharaja as an hereditary 1800 During his minority the adjunta-tation is astried on by a council under the residency of an Extra Assistant Commissioner be State supports one company of Imperial rudge Sappers

Ind—The three Kattes of Jind, tilla and Wahba form collections that of Jind, Patials and Nabha form collectively the Phul and founded Kapurthals 900 years ago Only

a small proportion of the population however was rewarded with territory which forms the are Sikhs, the majority being Mahomedana. The other crops are wheat gram, maise cotton in this State is famous for hand painted Joths The main line of the North-Western Hallware and the state is famous for hand painted Joths The main line of the North-Western Hallware who was born in 1883 and succeeded in 1911. He is assisted in this administration by a council of three members passes through part of the State and the Grands which also note as a court of appeal. The raflway from Juliundur City to Ferox pur vec Infautr. The State is traversed by the passes through part of the State and the Granda Trunk Road runs parallel to it. A branch rallway from Juliundur City to Ferox pur passes through the state Kapurthala maintains a hattalion of Imperial Service infantry and a small force of local troops. The capital s Kapurthala, which is said to have been founded in the eleventh century

Agent to the Lieutenant Governor for Lapur thala the Commissioner of the Jullander Division

Maler Kotta.—Phis State con sets of a level sandy plain bounded by the district of Ludhians on the north and by Patials territory elsewhere The Nawahs of Maler Kotla are of Alghan deagent and originally held post tions of trust in the Subhid province under the Moghal Emperors. As the Empire sank into deeay during the eighteenth reneury the iocal chiefs gradually became independent The result was constant found with the adja cent Bilth States. After the victory of Lawari cent Bilth States. cent 81kh States After the victors of Laswari gained by the British over Sindhia in 1803 and the subjugation and flight of Holker in 1805 when the Nawab of Maler Kotla joined the British army the British Government anoccoded to the power of the Manthus in the districts between the Sutles and the Juma The final treaty which affirmed the dependence of the State on the British Government and algored after the submission of Raufit Singh algored after the submission of Haufit Singh signed after the submission of Kaujit Singht in 1809. The present Awab is H I Nawab Ahmud Ali Khan Bahadur who was born in 1881 and succeeded in 1908. The chief products are cotton sugar and opinin. In State supports one company of Imperial Service Sapports. The capital is Maler Kotla

Mandi -- This is a mountainous State in the upper reaches of the Las It has a history the upper reaches of the 19.28 It has a finance of considerable length as it once formed part of the buket State Its relations with the British were determined after the battle of Sobraton in 1846. The present minor chief H. H. Eaj Joginda Sen was installed in 191. The administration is carried on by Mr II V. Emerson 1 c 8. the "uperint-indent and Sardur Amar Singh The principal crops are rice maize wheat and milict About time fifthe of the State are occupied by forest and grazing lands It is rich in minerals. The capital is Mandi founded in 152" which contains acceptal temples and other buildings of interest and is one of the chief marts for commerce with Ludukh and Yarkhand.

Nabha -- Nabha is one of the Phulkian States. It consists of two distinct parts the states. It comests of two distinct parts the main portion comprising 12 separate places of territory scattered among the other two Phalitian States of Patials and Jind. The second portion forms the success of Bawal is the extreme south-cast of the Panjab It became a separate "tate in 1733. After the The State supports an Imperial Se victory of Sobraco the chief was deposed and about a quarter of his territory was confinented.

For his loyalty during the Mutiny the chief solvier sorvice in the European War.

main line and by three branches of the North Mattheward to the control of the Rolling Wettin Rallway The Rajputana Malwa Railway crimese Bawal The chief crops are gram wheat and pulses the chief industries are manufactures of eliver and gold orna ments and brass ut nalls

Patials — This is the largest of the Phul kian States but its territory is scattered and interspersed by small estates and even single villages belonging to other villages and British districts Its history as a separate State begins in 1782 During the Sikh War and the begins in 1 of During one Single was and was sub-ducting the Maharaja was loyed and was sub-stantially rowarded. The pre-ent (hirt H H Maharayadhraja 8rt Str Bhupindar Singh Vahundar Bahadur of 1 n was born in 1891. and succeeded in 1900 During his minority his administrative function were exercised by a The principal crops are grain barl y and wheat cotton and tobacco are also grown in parts of the State It possesses valuable forests. The State is rich in antiquities especially at Pinjaur Sunam and Sirium! The North Western Rail way traverses the State It contains an Imperial bervice contingent of a regiment of cavalry and two battailons of infantre

In 1900 it was decided by the Government of India to appoint a Political Agent for Patiala, and the other two Phulkian States of Jind and Nabla were included in the Agency to which was afterwards added the Mahomedan State of Bahawalpur. The headquarters of the Agency are at Patlala.

Sirmur (\ahan) —This is a hilly state in the Himalayas under the Political control of the Commissioner of Ambala Division. Its history is said to date from the 11th century In the elahteenth century the State was able to repule the Gurkha invasion but in 1°98 the Gurkhas was invited to aid in the suppression of an internal revolt in the State and they in turn had to be evicted by the British thy in turn had to be eviced by no Brissal in 18,7 the Raja rendered valuable services to the British and during the second Afghan War he sent a contingent to the North West Frontier The present chief is H H Raja Amar Parkash Bahadur K & I., who was born in 1888 and succeeded in 1911. The main agricultural feature of the State is the recent deve lopment of the kiarda Dun a fertile level logment of the hards Dun a fertile level plain which produces wheat, gram, rice, mairs and other crops. The State forests are valuable and there is an iron foundry at Nahan which was started in 1867 but, being mable to compete with the imported iron, is now used for the manufacture of sugar-cane crushing mills. The State supports an Imperial Service Corps of Suppers and Miners which served in the Tirah Expedition of 1897 and is at present of article service in the European War.

### UNDER THE GOVERNMENT OF BURMA.

states two in the Maudala, Invision (Hkroatl In ordinary matters the States are adminis long and Mong Mit) and two in the vagaing feed by their Sawbwas who are assisted by Division (Hawnighau) and Singkaling Himat) a mats or inhisters, in various departments the area of which is 7-374 square miles and The Superintendent exercises general control the population about 67 Usi Consisting chieft over the jurisdiction of justice and is vested of Buddhests There are in addition 48 p tty States 5 in the Northern Shin States 43 in the Southern Shan States with an area of 58 %3) square nules and a population of 1 15% 498 (obsisting of Buddidds and Anunists

The Shan States—though a pertion of British ladus do not form part of Burma proper ind are not compress in the regularly administred airs of the Province Iha in for the roost part to the east of Upper Burna They over all guence to the Burness Covernment but were adminitred by the own rulers (Sawbass) and the British Go ernment ins continued to a certain extent the emimalependence which it found outling in 1885 to printists into higher but this extension as it produce defined the Shan States as 18 for the pre-ni in absoluble livided into—

States under the apervious of the Sup insteaded Northern Slan Stales whose healquarters are at Ia ho a a 14 294 square miles and pi pulation at Sal

2 State under the upervilon of the Supern tendent and Lolithial Officer South cin Shan States whom had quarters are at laungays area 40 404 square miles and population 900 -02

vision of the Commissioner of the Mandalay Division namely Hkmati Long in the unid tunisterial exercises to the north of the vi-tkying District and Ming will lying north-est of the Ruby Mines District. In the north-west of the Upper Chindwin District tuwerds Manipur there are two small Shan States Hawingheup and Singhaling Illaniti whose-administration is supervised by the Commissomer of the Sagaing Division

The Northern Shan States are North Historia m the north South Harawi near the Sala en m the east Manglon in the south at Haipaw in the south nort and lawns | number of the north west in Warrates cast of the halveen

under this Government there are four Shan | can hardly be said to be under British control with wide revisionary powers. In revenue matters the Sawbwas administer their States in a cordance with local customs which have been but little moduled. Of prime importance in the conomy of the country is the Mandalay La hio railway 180 miles in length of which 1.6 nules he within the Northern Shan States The line is a single track and was constructed In the fact of considerable engineering diffi-culties of which not the least notable was the toktek gorge now agained by a vaduct It bad been proposed to continue the railway about in noise farther sast to the Kunlong wh to a terry over the Salween and eventually

The most important of the Southern Stan Statts ar Kingtung and Yawnghwe Under the upervision of the Superintendent and Political Officer and his Assistants, the chiefs rount of Onter-ary in Associates the cineta ——how as Asabasa Vioza and Ngwgunh inus—control their own States exercising revenue civil and riminal jurediction therein here are in all 9 Sawbwas 13 Myozas and 11 Agre-unhmus

Karenni -This district consists of five There are five states in the Northern and 2st State with a total are of approximately in the Southern Shan State. There are in 4 200 square miles and a population of about addition two shan States under the up r e4 000 lying on the fronter south of the Shan States. The largest State is Kantarawadi State with an area of 3 000 square miles a population of n arly 40 000 and a gros revinue f about inhabitants belong to the Rud Karens a recole os in the scale of civilisation. An Assistant of the British Government and a crtain amount of control's exercised through time or the chiefs. The principal wealth of the outsity is t at timber and the considerable

dien population is largely supported by the timber trade which however has declined really in the lat few years. The Karens thun-clive are distinguished as bunters

#### UNDER THE GOVERNMENT OF ASSAM

Commissioner of Assam is Manipur which has an aren of 8 456 square miles and a population of 346 222, of which about 60 per cunt are Hindus and 36 per cent animistic fore-t tribus Manipur consists of a great tract of fully country and a valley about 30 miles long 20 miles wide which is shut in on every side I had the adopted Hundusm in the early eighteenth century when it came under a Naca subsequently made several lava Raja who sons into Burnes. On the Burnese retailst ing Manipur negotiated a treaty of alliance with the British in 1782. The Burnese again lovaded Manipur during the first Burnese War and on the conduston of peace, in 1828 Mampur was declared independent th

The only State of importance under the Chief chief event in its subsequent history was the intervention of the British in 1891 to istablish in area, of 8 458 square miles and a population the chief of kuis Chandra Singh as Maharaja, the claim of hula Chandra Singh as Maharaja, collowed by the treacherous murder of the Chief Conmissioner Mr Quinton and the officers with him and the withdrawal of the escort which accompanied him From 1891 to 1998 the State was administered by a Political Agent and Singh rindered to the State during the minority of H H Raja Chura Chand Singh The Raja was invested with ruling powers in 1998. The administration of the State is now evadenced by the Durbay consisting of the conducted by the Durbar consisting of the Raja as President a vice president, a member of the Indian Civil Service whose services are ient to the State three ordinary and three additional members who are all Manipuris

The largest of them is Khyrim the smallest is Nonglewar which has a population of 169 Most of them are ruled by a chief or Sign The Siemship usually remains in one family but the succession was originally controlled as a rule are small

#### UNDER THE GOVERNMENT OF CENTRAL PROVINCES

The Central Provinces include fifteen fouda tory States subredinate to the admin. tration with an area of \$1.174 square miles and a population of \$,117.002. One of the States Makrai these within Hoshangshad In fruct the re-mainder are attented in the Cheatingari, Divi-sion to the different Districts of which they

contained in the following tabl -

State.	Area	Popula tion 1911	Revenue (approxi ingi ) in Lakhe
	<sup>q</sup> q Mile≈		Ps
Bastur	13 062	43 310	. 8
Jashpur	1963	1,4 4,8	ĭ
Kanker	1 429	127 014	_
Khairagarh	718 T	1 1 2 471	ડે
Nandgaon	8"1	167 962	4
Raigarh	1 486	218 360	2
Surguja	6 055	248 703	2
Eight oth States	er 5377	411 824 	. 6
Total	81 174	2,117 002	

Rastar -This State south-east corner of the Provinces is the most south-east corner of the Frowness is the most important of the group. It has an area of Bhonds of Berar and order and was soon establiagous mules and a population of 433 310 lished. The family of the Risk is very anient and is created to belong to the Raiputa of the Lunar trace. Up to the time of the Marathas, Bastar of trouble. A band of them committed several eccupied an aimort independent position but murder and robertes in 1910.

The staple crop of the country is rice. Forests of great variety cover the whole of the infinite ranges.

Khasi and Jaintis Hills—There petty charted by the constitution of a control per start of the bear a tendency to broaden the clerctive basis and the constitution of a control per start of the basis and the constitution of a boat 3 900 square miles and a population of the states have treating the control over his people among many of the crop of the states have treating the invite a start of the states of the states have treating the treating of the states of the states are treating to the states of the stat Khass seem however to have been less dis-tracted by internal warfare and the villages

a tribute wa imposed on it by the Nagpur government in the eightenth centure 41 this period the constant fends between Bastar and the neighbouring State of Jevpore in Madris kept the country for minus years in a state of anarchy the chief object of contention was The States vary greath in size and importance the bast in the largest being one of bakts the smallest, having an aris of 1.8 guilt but for a classic size vary greath in size and importance the bast in the 1 duing some tamily dissensable the smallest, having an aris of 1.8 guilt in the third duing some tamily dissensable and Bastar the largest an aris of 1.8 guilt in the first and the court of Jerpore in 1863 guaranties. They are administered by here on condition of parameter of the force on condition of parameter of the force on condition of parameter of the force on conditions of the first state of Reference of the force acknowledgments of featty but are nominally of this arrangement the tribute of Bastar was free from direct interference save in the case until recently reduced to a nominal amount of sentences of death which require the Charl Db cultivation. It he start extremily sparse Commissioner a confirmation. But as a fast Rice is the most important trop. He Statt the Government has exercised a serv. hir, e is ruled by the industry Chief. The Dewan amount of control owing mainly to the free of the State is an extra Axistant Conservator. quency with which the States have been taken or Forests who he three assitants under under direct management because if other him. Aft r a recent period of disturbance the minority or the misconduct of the enter the State has returned to complete tranquil The states pay a tribute to Government litt and precartions are being taken to remove which amounts in the aggregate to about — all causs of unit by briter supervision over the many supervision over the more states and a very considerate Statistics relating to the chief states are neck builty. The chief town is Jagdalpur on the ludiavati River

Surgula.—Intil 1905 this was included in Chola Nagpir State of Burgul The most important fature is the Manpat a magnificant tableland forming the southern barrier if the State The early in tory of Surgula is obscure but according to a local tradition. in Palaman the present ruling family is said to be descended from a Rak of Raja of Pala man. In 1758 a Maratha army overran the State, and compelled its chief to acknowledge himself a tributery of the Blion la Raja. At the end of the captiteenth century in consequence of the chaf having aided a rebellion in Palaman against the British an expedition entered Surguly and though order was temporarily restored dispute again broke out between the chief and his relations, necessitating British interference Until 1818 the state continued to be the scent of constant which her to the the Lyttsh for model a with Mudhon

## Native States' Tribute.

Many of the States pay tribute varying in amount according to the circumstances of each case to the British Government. This tribute is frequently due to exchanges of territory or estilement of claims between the Governments but is checily in Deu of former obligations to supply or maintain troops. The actual annual receipts in the form of tribute and contributions from hatrie States are summarked in the following lable. The relations of the States to one unother in respect of tributes are complicated and it would serve no useful purpose to enter upon the question. It may however be marked dupted and that Gwahor claims tribute from some of the smaller States of Cartral India.

STATES PAYING TRIBUTE DIRECTLY TO THE COVERNMENT OF INDIA

	±	İ
Tribute from Jaipur	26.687	
Kotah	1 048	
Agirl ni	13 3	
Jedhpur Bua i	8 303 4 2	
Other Stat .	15 170	
		81 57
Contribute in of Jodhpur towards c t of lampura Irregular Lorce	7 864	
of kotab toward to the floor Irregular Force of Phopal towards in the high Long	13 3	
of Jaora towards cost of I mired Malay Contingent	19 -1	
Contributions towards cost of Malwa Bhil Corps	2816	
Fa		57,279
Fees on auccession	1 [	3 437
Total	i i	142 290
Central Provinces and Birar	[ [	
Iribute from various States	1 1	75 696
Burner	Į į	10 090
Inhotes from Shan States	22 893	
other States	) 38 (	
Lastern Bengai and Assam		28 927
•	l (	
Indute from Manipur	3 333	
Ramrai	13	3 347
Ben jal		0.04(
Inbute from various States	1	3 483
United Provinces		
Tribute from Bensies	12 148	
kapurthala (Lahraich)	8 753	20 882
Punjab	1	
Inbute from Mandi other states	6 567 3 086	
lees on succession	103	
·····		9 886
Lubute from Tra ancor:	52 207	
Le hkash and subsidy from Mysore	230 033	
(ochin	1, 49	
Luxupcore	864	
Ьотран		299 768
Indute from hathiawar	31 129	
var ous petts States	8	
Intribution from Baroda State	2_ 068	
Jagudar Southern Mahratta Country	5 65 0 484	
him on succession	3 407	
	) <del></del> '	70 727
Grand Total	l r	595 00u
dimit humin	1 }	089 009

R was announced at the Coronation Durbar of 1911 that there would in future be no Nazarana payments on successions. The details given above ar, for 1911 12. In 1910 the bubute amounted to 1 607 100

# Foreign Possessions in India.

Portugal and France both hold sm il terri gives a lensity of 348 persons to the square torial possessions in the Indian Peninsu a

The Portuguese processions in India con let of the province of Goa situated within the light of the Propher Processions in India con let limits of the Bombay Proudency on the Ara bian Bea coat the small territory of Daman on the Gujarat coast at the entrance to the Guif of Cambar and the little island of Diu lying of the southern extremity of the hathia war Perinania

#### GOA

Gos forms a compact block of territors surrounded by British districts as antiagh base her to the north of it the Arabian sea Socentradi on the west and North kanara on the south and the eastern boundary is the range of the Western Chats which eparates it from the Bittish districts of Belgaum and North Kanars. miles and the gratest breadth from east to west 40 miles. The territory has a total area of 1 301 square nules and comprises the island of Gos acquired by the Portuguese in 1610 the division of Velbus Conquista, or old Conquests, comprising the neighbouring dis-tricts of Barder and Salastte acquired in 1.43 and the Nova Conquistas or New Conquests comprising the di tricts of Pernem Bicholini; or Batagram Satam Ponda or Antruz Zam bazilim or Panchrial and Umacona or Advota acquired in the latter half of the 18th country. The small island of Andriv stuated opposite the port of Karwar in the british listrict of the port of Karwar in the brith a lighter of horth Kannara form administratively a pur-tion of the province of too like was ac-quired in 150. The whole country is hilly repectally the western portion the predomi-nating physical feature burns, the Western Chata which he wise boundary the country Ghats which be ides bounding the country along the north east and south east jut off westward and spread across the country in westward and spirate across the country in a succession of spors and ridge. There are several conspinuous modated peaks of which the highest but sagar 15 1827 reet high

The country is intersected by numerous nivers running westward from the Glass and the principal eight which are all mangable are in the of some importance those poses es a fine harbour formed by the prominiances of Bardes and Salsette Half was between these extremitie lies the cubo or cupe which forms the articular of the Land of Goa. The divides the whole bay into two anthorages known as Aguada and Marmaguo Both ar capable of secondinidating the largest ship ping from beptember to May but Aguada by the second second to the south west mon soon owing to the high winds and sea and to the formation of saint bars across the estuary of the Mandavi riv r which opens into Agua; a Marinagan is accessible at all times and is therefore the harbour of commercial impor-

of 6 per cent ince the census ten years pre-viously In the Volhas Conquetas 91 per cent of the population is Christian. In the Noves Congon tas Christians and Hindus are almost equally numerous. The Moslams in the term tory are numbered in a few thousands. The (bristians still very largely adhere to caste Christane still very largely adhere to caste dituntion claiming to be Brahmans Chara dos and low castes which do not intermarry the Hindus are largely Maratha and do not differ from these of the adjacent books of the total of the total districts of Bombi. All classes of the people with the exception of Europeans use the Low kani dialect of Marathi with some admixture of Portuguese words. The official language is Portuguese which is commonly spoken in the capital and the principal towns as well as by all educated people. Yearly all the Chri tians profess the Roman Catholic reli-cion and are spiritually subject to an arch bishop who has the titles of Primate of the East and Patriarch of the Last Indies and exercises ecclesiastical jurisdiction also over a great portion of British India. (The Christians of Daman and Div are subject to a Bisbop who hears the titles of Bishop of Daman and Archbishop of Cranganore ) There are numerous churches in Gos mostly built by the Jesuits and Franciscans prior to the extinction of the religious order in Portuguese territory The churches are in charge of secular oriests. Him due and Mahamedans now eajoy perfect free dom in religious natters and have their own places of wir hip in the early days of Por tugures role the worship of Hindu gods in public and the observance of Hindu usages were strictly forbidden and ricorously suppresent

#### The Country

One third of the entire territory of Gos is stated to be under cultivation. A regular land survey was only recently made. The futibity of the soil varies considerably accord-ing to quality situation and water supply. The vellar Conquistas are as a rule better cultivated than the Novas Conquistas In both these day lons a holding of aftern or sixteen acres would be considered a good sized larm and the majority of holdings are of smaller extent the staple produce of the country is not of which there are two good harvests, but the quantity produced is barely sufficient to meet the needs of the population for two-thirds of the year. Next to nee, the culture of cocount pulms is deemed most important from the vinety of uses to which the products are applied 11115 places and interfor soils are set appart to the ultivation of cereals and several kinds of fruit, and vegetables are cultivated to an important extent. The condition The total population in the whole Gos terri berry was 475 513 at the censure of 1900. This quistas. They cover an area of 116 square the armies of the Bijapur kingdom but the miles and are under conservation and yield. Portuguese held their own and gained the surfacement profit to the administration. Iron is containing territory new known as the Velhas found in parts of the territory but has not been seriously worked. Manguages also expenses and was worked to an important extent. The subsequent history of the town is one stream of insurer section and decay. Gos reached

empire and its trade is now insignificant F ? empire hist to trade is now longituding. It is manufacturing fadostries of any moment exist and most manufactured articles in u. or moment exist and most manufactured articles in u. occannis betel nuts unangoes and other forms and new product. A line of mulwar connects Marungaes with the Masiras and Southern nects Marungaes with the Masiras and Southern Mahratta Ballway Its length from Marma, as o Castle Book above the Chaia where it solus the British system is of miles of which 4+ are in Portuguese termor The milway 44 are in Portuguese territor. The millway, a under the management of the Madras and southern Mahratta Bailway a luministration und the bulk of the trade of Marmanao port is what it beings down from and takes to the meterior. The tell graphs in to a territory are, worked as part of the system of British. and worked as part of the system of bifters india and are maintained jointly by the British and Portuguese Covernments. The Goa territory was formerly subject to devastating families and the people now sufter heavy losses territory

#### The Capital

Nova Goa, the present capital of Portugue e nova tion, the present capital of Fortingue e India comprehends Panjim and Rikan lar as well as the old city of too and I six miles in extent. Old Goa is some five miles different the new city. Panjim occupies a parrow stop of land leading up to the Cabo the capa dividing the Aguada has from that of Marma goa, and mainly slopes down to the ele of the Aguada. It was sologied to the elections the Aguada. It was selected as the residence of the Portuguese Vicerov in 1759 and in 1843 it was raised to its present rank as the capital of Portuguese India. The appearance of the city with its row of public buildings and elegant private residences us seen from the water is very picturesque and this impression is not belied by a closer inspection of its mat and spacious roads bordered by decent tidy houses The most imposing public structures are the barracks an immense quadrangular building the eastern wing of which accommodates the tweenin the Public Library and the Covernment Press Other noticeable buildings are the Cathedral and various charches the vicerogal palace the High Court and so on The square in the lower part of the town is adorned with a life-sized statue of Albuquerque stand ing under a canopy

#### History

Gog was captured for the Portuguese by Allonso de Albuquerque in 1510 Albuquer que promptly lortified the place and established Portuguese rule on a firm basis From this time don rapidly rose in importance and be-

ste md was worked to an important extent of iuxurv extentation and decay. Gos reached a two years ago

Commerce

In the days of its glory Gos was the chief entropt of commerce between Est and uses show that the Gos of those daws presented a score of military sech-sustical and commer and was specially famous for its trade in horses with the Persian Gulf. It lest its commercial in the British capitals of India. But the importance with the downfall of the Portuguese based that deminion in India on empire and its trade is now insignificant. Fig. consolidate it by a pro lytizing organisation which throws the in linary efforts of every which throws the interpretation of every other European power in India into the shade Old Coa, a the rules of the old eapltal are called to-day had a hundred churches many of them of magnificent proportions and the Inqualition was a power in the land. The how feebly com uted the uperstructure reared apon It

After the genius of Albuquerius and the energies if the early vicrovs had apone them class that a vast lide population in the capital. The work of conquest was over and it left behind it a gav and wealthy city of conquerors who had nothing to do

#### Modern Times

The Portuguese were unable to hold their own against the native banditti. There was in times of drought. They are then supplied frequently resurring fighting and in 1741 the though at great cost with rice from British Marathas invaded the neighbourhood of Goa and threatened the city limit. An army of 12 000 men arrived from Portugal at the cri theal moment The invadire were beaten the Portuguese possessions in 1844 the shelter given by Gos to justices from justice in British territory threatened to bring about a rupture with the British Government at Bombay In 1852 the Range of Satari in the Nopompas in 1952 in three or varal in the vo-vas conquistas revolved In 1871 the native army in Goa mutumed and the king's own brother came from Li bon to deal with the trouble and having done so debunded the native army which has never been reconstinative army with his never been reconstruct. I But another outbreak among the troops took place in 1860 and the staces job leg them the froutle was again not quieted until the artival of another special expedition from Lisbon. The Ranca again broke out in 1901 and again in 1912 troops being again linported to deal with the last outbreak which wa only reported concluded in the summer of 1/13

#### Administration.

Goa is regarded as an integral portion of the Portuguese Empire and with Daman and Diu forms for administrative purposes one province subject to a Governor General who province subject to a Governor General who
is appointed directly by the Lishon Govern
ment and holds office for five years. Besides
his civil functions he is invested with supreme
military authority in the province.
The Governor-General is added in his ad
ministration by a Countil composed of a Chief

time tion rapidly rose in importance and be Secretary the Archbishop of Gos or in his time the metropolis of Portuguese power in absence, the chief ecclesiastical subtractive in East. There was constant lighting with exercising his functions the Judges of the

High Court, the two highest military officers Inspector de Instruccao publica and the Court Goa, the Attorney General the Inspector de Instruccao publica and the Court da Fazenda, the Health Officer and the President of the Municipal Camara, Municipal das lina of the capital (Camara, Municipal das lina) which is the oldest Municipal bods in the Camara Stunicipal College, a Professor of the Camara Stunicipal College, a Professor of the Stunicipal College, a Professor of the Camara Stunicipal College, a Professor of the Vector of the Stunicipal College, a Professor of the Stunicipal College, a Professor of the Camara Stunicipal College a Professor of the Camara Stuni

### DAMAN

trance to the shall of Camba about 100 miles fronth of Bembay it is composed of two libraries of the territors are miles and the detached plantage of Nagar Havili and the chacked plantage of Nagar Havili and about two-thirds of British territors and bis cred by the B of the territors and bis cred by the B of the territors and bis cred by the B of the territors are not to seen of 22 courte miles and 26 villages at his a characteristic through the portugue of the transposed of the territors are not to seen of the territors are not to seen determined. Before the decime of Portugue-o power in the base transposed of the t

The settlement of Daman has at the en tut despite the case of cultivation only one-trance to the Gulf of Camba about 140 miles twentieth part of the trinter; is under tilinge north of Bembay It is emposed of two the principal crops are new wheat the inferior portions name is Daman proper lying to the reals of Cunational codes on The witten

The soil of the actitement is must and fer The chief source of revenue are land tax, tile, especially in the pargana of Asgur Havili forest, excise and customs duties.

Din is an island lying off the southern extramity of the Kathawar Penin-ula from the commence It has now dwindled into in which it is separated by a narrow channel implicance. The extreme length of the island through a con iderable swamp. It has a small is about seven miles and its breath, from but excellent harbour when verse can settly north to south two miles. The area is 20 ride at anchor in two lithout most water and owing to the great sdvantages which his principle. The population of the town of owing to the great sdvantages which his principle. The pupulation of the town of two miles and takes its name foulf the Portuguese were fired at an infinite in the property. The total population of the transition of the town of the said second with a deare to oftim poses into if the island according to the cross of 1000 of it. Thus they guard first by that with 14 old of whom s43 were Christians. of it. This they guird first by traft with 18 14 614 of whom 543 were Christians, the Sultan of Gujarat and then by force of

Din is an island lying of the southern ex jarms. Din became opulent and famous for

#### FRENCH POSSESSIONS

The French possessions in India comprise exemption from taxes and a monopoly of the five Settlements with testain dependent longes that the property of the saggragate 205 squire railes and had a total population in 1912 of 28. deals that it was a total population in 1912 of 28. deals that it was a view to open up comm resal ritations and the frest fench expilition into India waters with a view to open up comm resal ritations and the frest lint Caron founded in 1693 it was undertaken Comptoir or agency at Sura But on find by private merchants at Rouen but it failed as also did several similar attempts which holds be research the theorem of Talcounder in Contour or agency at Sura But on find by private merchants at Rouen but it failed as also did several similar attempts which holds be research the theorem for Talcounder in Cevton founded in 1642 Cardinal Richehen founded from the Dutch. The Dutch, however speedly the first Campagnie d Orent but the efforts in the Dutch Talcounder, and Caron passing the Company on a larger base in 1664, granting but Thome a Portuguese town adjoining Madray.

prince and what Job Charnock was to Calcutta Francis Martin proved to Pondicierry. Until Transcription of the French by the Proce of Byswick in 1997 Martin was appointed Cyclindra and martin shall management found there became an entrope of trade Chandernagar in Lower Benial had been Educated by the France Company in 1885 by grant from the Delhi Lipperor. Make on the Calcutte Transcription of the Malabar Coast was obtained in 1726 8 mides of the Company of the Process of the Company of the Compan in 1739 Yanam, on the coast of the Northern Circars was taken possession of in 1750 and

our for the establishments of Podicherry for the establishments of the subject of 30 511 beina). Nearly Nebrucadine Timodar (1998). At these three ports in 1914 202 result of a discount of the establishment of box 301 to 1914 and a 40 chandert agar. Main of the army and the establishments of the establishments of the establishments. On mind lipid bord natives are trained monthly better Colombia and nutried to a proportion of the seats Cult (abulta in corn ction with the Messagenre and establishments). The figure contained in this para and a court of appeal compose the judicial raph are the layers contained in this para machinery. The army and establishments 1915 when this chapter was corrected.

which had for twelve vears been in the po- connected with the Governor and his staff at Bession of Holland He was, however compelled to restore it to the Dutch in 1874

Bession of Holland He was, bowever compelled to restore it to the Dutch in 1874

Mahe and Aarkal, together with other head The run of the Company are med impending when one of its agents the celebrated I run ous Jarthn sudden's restored it Rallying under time a handful of sixt Frenching and the greatest of an independent Government, with shode at Pondicherry then a small village which it purchased in 1683 from the Raja of dinest Re built fortifications and a trade began to spring up but he was unable to bold five town against the Dutch who wrested it from his abody of priests for all the town against the Dutch who wrested it from his abody of priests for all the town against the Dutch who wrested it from his abody of priests for all the town against the Dutch who wrested it from his abody of priests for all the town against the built who wrested it from his abody of priests for all the town against the built who wrested it from his abody of priests for all the town against the built who wrested it from his abody of priests for all the town against the built who writed it find his first the first built was restored to the French by the Peace of Ryswak the Jissife in 1778 But the chief field of this size and what Job charnock was to Calcutta the Calcutta the Calcutta the Sixten and what Job charnock was to Calcutta the Rench by the Peace of Ryswak that the Rench by the Peace of the Rench was to Relucted the Rench by the

#### People and Trade

People and Trade

Partition The Settlements are represented in Partition and set of the French two years later

Administration

The military command and administration in chief of the French possessions in India are reacted in a Governor whose residence as a residence in the first possessions in India are reacted in a Governor whose residence as a residence in the first possessions in India are reacted in a Governor whose residence is at present held by thousieur a Martinora III is a suited by a form of the first administration of the first administration of the first administration in the first administration of the first administration in the first administration of the first administration tiplished the nembers bug case in by a sort prioning and a souncing nerit wire in only prioning fit one property of the first surface and a souncing nerit with a term of the real of at which are priority and a real of the Cours or ere to a two left in the communal states of the exports from Pondisherry are off the chief exports from Pondisherry are off the chief exports from Pondisherry Rayled and Malv in 1813 the imports in the chief and the chief exports of the catalyshment of Pondishers and the export to 3 30 611

### PONDICHERRY

Pondicherry is the chief of the French Settle-ments in India and its capital is the head quarters of their Governor. It is attuated on the Coromandel Coart, 105 miles from Madras tond and 122 by the Villaporam Pondi herry branch of the South Indian Ballway

The area of the Suttlement is 115 square inlies and its population in 1914 was 170,152. It consists of the four communes of Pondecherry The Settlement was founded in 1944 under Francois Markin. In 1993 it was captured by the Dutch

but was restored in 1690 it was besieged Agent accredited to the French Government four times by the English The first siege, who is usually an officer of the Indian Army mader Admiral Boscawen in 1748 was unsue. The town is compact neat and clean, and i The second under Eyre Coots in 1761 cessful. The second under Eyre Coote in 1761 resulted in the capture of the place which was restored in 1765. It was again besieged and captured in 1778 by Sir Hector Munro and the fortifications were demolushed in 1779. The place was again restored in 1785 under the Treaty of Versailes of 1783 It was captured a fourth time by tok nel Bruithwelte in 1793 and finally restored in 1816

The Settlement comprises a number of isolated pieces of territory which are cut off from the main part and surrounded by the with ordinary correspondence with the French authorities on these and kindred matters and in this capacity is styled the yearst Agent Dupletz to whom the place and the French At Pondicherry fresh is a British Consular name owed so much

divided by a canal into two parts, the Ville blanche and the Ville noire. The Ville blanche has a European appearance, the streets being laid at right angles to one another with trees along their margins reminding the visiter of continental boulevards and the houses being constructed with courtvards and embel light dwith green venetians. All the cross streets lead down to the shore where a wide promenade facing the sea is again different iron anything of its kind in British India In the middle is a screw pile pier which sorves isolated pieces of territory which are cut in in the manufe is a series pile pier which sorvers from the main part and surrounded by the whin ships touch at the port as a point for British District of South Arcot except where the landing of carco and on holidays as a they border on the sa This fact occasion, contail promensal for the pondicinery ships he with crime hand customs and excest The at a distance of about a mile from the shore confidence of Scuth Arrot is (mixwered to deal and communication with them is conducted by the usual manula boats of this coast Facing the shore end of the pier is a statue of the great

#### CHANDERNAGAR

Chandernagar i situated on the bank of the Rollway is just outside French territory 22 Roognly a short di tance below Chin ura Population (1914) 28 916. The town was administrative officer is the Administrator permanentity occupied by the french in 1888 the is subordinate to the Governor of the though pieviously it had been remperarily forced by them at a data given as 1672 or of complete by them at a data given as 1672 or of the distribution of Dupletx it changed ance till the time of Dupletx it changed and french various and for the operations of smugglers in opium hands between British and Frinch various and other excisable articles. Considerable though disappeared and at present it is little more informer grandern of Chandernagar bas, chief public institution is the College Dupletz disappeared and at present it is little more informer; called 8t Mary's Institution found than a quest suburban town with little external ed in 1882 and under the lirect control of the trade.

#### KARIKAD

Karikai lies on the Coromandel Coast between are reserved for Europeans or their descend to Tanjore District of Madres and the Bay ants. The country is very fixthe being kraft Bengal. The Sittlement is divided into gated by seven branches of the Cauvery be the Tanjore District of Madries and the Bay of Bengal. The "ettlement is divided into three communes containing 110 villages in all, and covering an area of 38 square miles all, and covering an area of 28 square miles the governed by an Administrator subordinate to the Governor at Pondichert. The population ba in recent verse rapidly decreased in 1883 it as 93 055 in 1891 70 .26 in 1901 65 95 in 1812, .65 579 on time 1814 45 764 but the deality is still very high, being 1068 persons per square mil Kumbakonam is the only taluk in Panjore District which has a higher density. Each

sides many amatier channels.

The capital of the settlement is situated on the north bank of the river Arasalar about 11 miles from its mouth. It has a brisk trade 14 nutes from its mouth. It has a blak trade in rice with Ceylon and to a less extent with the Straits Settlements. It has no commerce with France and very little with other Franch culonies. The port is merely an open roadited provided with a light house 14. feet high the light in which has a range of from 8 to 10 miles. Indian labourers emigrate from hardal to the French colonies in large numbers. In 1898 harlist was connected with Pevalem. kumbakonam is the only takink in kan high the light in which has a range of non-jore District which has a higher density. Each 8 to 10 miles Indian labourers emigrate from of the three communes—namely karikal harikal to the French colonies in large numbers. La Grande Aidee and Nedungadu—possesses in 1899 harikal was connected with Peralem a mayor and council. The members are all on the Tanjore District Board Hallway Karl elected by universal suffrage but in the mun kal finally came into French possession on the dpality of Karlkal half the number of seats settlement after 1815

## The Indian Frontiers.

In the wheredditions of The Indian Year ment and ince effect conclusion of that instru-look, in the articles on the Indian frontiers if ment the Frontier question as it used to be was polated out that this question was for understood has laded into the background may hearest out these says quistion was not mark three for mitting the says of two notable exceptions. British statesmen and British sold in were able to view this is to sold in the mitter. of Russia the attempted to me tit by opin ing Pulsaia in there part of the world building up buffer states between the lidial Impore and Russia in Asia and by main mining involves the rolumn of lichy on the lands and the A sketch of the frontier difficulty s of the Indian 4 over ment since the Pritab begins to a summe territorial power the Prices became to resume their trial lower in Indea is right for relative of the new in Indea in the relative of the control of the contro folling of the callant Sulfing her for lominion broker be the telle given to the great Dup) x and her began of divisit of the great pulp of a little of the the striken of Hyder the then the foreign as the lapted for well sight I is a contain Meantaine the process of internal consolidation Meantime the process of internal consolutions advanced so rapidly that when renewed presure came from the North there was no fittal to the British 11 India and only one considerable military power the sikhs under Earnit lingly Such were the conditions when fears of Pussian intrigues in Afghamstan and the belief that the Amir Doct Mahomed was lending a ready ear to them, induced the disastrous attempts to set the exiled shall shups on the throne of Afghanistan and Inaugurated the most deplorable episode in Indian Monter policy the war of 1838 That was the first stage in the long duel between Great Britain Russia for influence in Central Asia and on the confines of India. There are no pages in I nuss in the cy which are so unpleasant to turn thur policy may be summed up in a sentence impotent opposition to the lussian advance of Central Asia Pussian pale, was not more simple in part her advance aprang from the lot stable clash of a higher civilisation with a lower in part no doubt, her officers were not both to pay off by setting us in a fer ni nt in Central Asia scores made on the heights of Balaclava and at the Berlin Conference It was not until war was avoided by a hair's breadth that relations began to improve Russo Afghan affray at Penjdeh in 1885 brought both countries to a realisation of what they were nearly fighting over After that there has a glow improvement. The Russo Afghan boundaries were delimited. The ronters on the Pamirs were rettled. There were alarmous and excursions during the Russo Japanese war "hen erroneous accounts were currelated of sreat Russian concentrations in Central Asia, and again when intrigues with Tibet forced Lord Curren to send the Younghusband Expe-

understood has taded into the background until it was revived by German aggression

#### The Land Route.

We have so d that the Indian frontier question was a reflection of the Leneral European situa Whilst the gaze of the British people was colorate still on Russia which with her huro con ideard the conquest of ladia they tailed to see the real men we whi h sprang from the castern imbitions of Certians. It is one of the proces of the itration that a British And is identified a the actually encouraged the all ntol (citant) into Asia Unicia a countri join to Risia and this lad the train for the in ant war locates not own to doubt that the ultimature to Serlin was design d to reduce that btute to seed of on of see I finde to Au tris schem s and the by to pive the way for an advance to auppoint but nake the comment buln the the conque t of Constante opic and in advince through A 11 Monor to the Perslan will til the mubition, were centered in th r Vival of the Land Route to the East. t id on he tory o car I say that the mal he tors of the land route to the Land urvives in little more than a history knowledge of trivel of Marco Polo But forcent une the land route we one of the great highways of the world. When Alexanderset out on his expect or computed thents two regiting a ago there was unlead in h read from Mesopotamia to will fan and not a villy diffi nit out to Mckran ard so it came about that impressory movement ither compulsory or countrie continued through centure ever extender that scope until eached by the deans of the Indian mentur the highlands of the Lumrs or libet of the old water of shell. The Croung
of this road we due to the erujtion of the
Af han th Tink and the Mongol and in
particular to the half downail or the Emparof the kiliph I for the d to ving hordes of thingiz kilon well waterlain. The land rout we lead and the periodion of a communications to sent d the real tents. of any strong conomic need for its revival The improvement or the curious route between Nu bla ud na tan for Mobil represents the only improved land communication of the But h I min for all the e s at The abor tive prope il tur a raily is along the Eurobrates Valley in and the killing of the one project which night have privent dithe later complication. tions

#### Advect of Germany

But if the British people fuled to an der-tand the trainings of listory and were folded into the complaient belief that the land rours could be inde that it cloud and all traffic with the Last confined to the ea, whereon the nore masters the German Government refued to subscribe to this comfortable defusion. The story of the revival of the land route and dition to Linea But the ground was gra- The story of the revival of the land route and dually prepared for the Angle-Russian Agree- with it a whol chain of German ambitions

is little known and was for long preserved in fragments it has however been told with authority and cleaners in the 29th number of The Times History of the War to which the reader in search of more detailed informs that story here although parts of it more properly belong to the detailed frontial sections

which follow -

The first vilt of the Emperor William to Constantinopl in 1889 saw the dawn of a Pan Germanic Scheme which we known in run (sermanic Schome which wa ki own in Brun a the Lib Lib Hin Byzantum Baghalid After the war big in a Frote or lecturing at Behin ward that the money a minght be summed up in four eathword—North Sea Con tanthi op) Bagdida li diai Ocan Another tay direct expression at the but of the Lipp for was a teritimal ewedge. buted to the Loop for was a Grimm in enedge raching from Hamburg to the Tersian Gulf. The st pe towards this goal with very deligible takin. The fit is measure with require suprime influence at Constanti nople. This was dore by visiduous court; abdul Hamed and ill critis mentaning his fullence agus of the risk of turney. At a time when Abdul Hamed's hand we received by the hood or the Armanus market of the hood or the Armanus market of the hood or the Armanus market of the hood. the blood or the Armanians mardered by hi orders in his capital and his provinces the hater professed himself he warm triend and haller professes among in warm min an a un-steadist by russ d to support any ma un-to save the lives of the Armaniar s or to the k-m government in Macdonia The reward come in valuable come sions. The Drut the Bank group which had acquired control of the railways of European Lurkey extended its influence to Asia Miner After the sould test of the Kauser to ton santi offe in 1898 there same the Bagledad Railway on reson (q v ) by which the Sultan granted a conces ici (q v) by which the Sunsi grant a control of the Analdian railways is forman attributed to Bagidid and the Persian tult to a Granan swaid at the was styled. The Imp rial Offoman Englided Railway Compai and the come non wan igned on behalf of Company by H rr to become of the Dout che Back. Py a further and more definite conces con granted in 190 to Herr von Guinner of the Deutsche Bank Turky guarant d intrest on the cost of the line at the rute of 1.00 per annual per kilo metre. This was ufficient to ensure the promoters a hand one profit on the enterprier regardles of the traffic conditions. In regard a good deal of mi construction with regard to the line which the Grains a are duisding under this come as on All sort of a time it have been made on the a sumpt on that the line will be put d or ly for slow frame a d th conclusion has been drawn that the ma route will be able to comp) to with it for pas enger traffic. The full i that the later wet on of the line are being built to a ta dard which in India is applied to express traffic, as d which even in the Indian list weather permits trues to be run at fifty miles an hour

#### Persian Gulf Port

An essential part of this scheme was a port | The server as a training for the railway in the Persian Gulf The stype taken to this end are very characteri tie of Teutonic commercial diplomacy The first German firm to appear

in the Gult was that of Wordkhaus & Co. of Hamburg which in 1896 began to dist in shell and mother of pearl at Lingah. The next year the Germans established a vice con ulute at Bushire there were then aix (erman subjects in the Persan Gult In Cerman subjects in the Persian Util In
1810 after the igning of the definitive Baghdad
Railway cone sofon this activity inquised
Pre Grituan cubset Arrona vit d varrous
part of the Gulf A parts of German Scin
18th appears at Bunder Ablas In 1900
For Sciental Africa vi, of sulf Grieval at County tenoule travell doverland to the Gulf or the head of a mi sion which included the common Military Attache at Constantinoph He visited Sheikh Mulwish of Rownit and He visited thrish Multrish of known that trid to have it at Rs. Authorise of the head of the Lav a at runnus for the railway. He was n fund for the Shelah I at enter d into an agreement with Great Butain rot to have it dispose of any part of he policious to 3 for ign pow r without our permu ioi Buffed in dir of pegotiation the termal a who were now all powerful at for tanth cple stirred now all powerful at collimining surrice out the Inrk to attack Shikh Mubarak. In 1601 a Furki h core it pack d with troup, sail d into Koucit borbour and the commander u nounced that he proposed to take possession or the town A British cruser intervened and the Turks sailed away Later a high Turkish official with a m nacing letter to the Sheikh entered the harbour and r tur d for the same reason Two other att mpt were made the first was to stir up Ibn Pa hid or Central Arabia to attack Kowi it the arcond to moite Mubarak suephews to the same end with the failure of these effect the direct German attacks on Kowert came to a conclusion. They once again had recovered on alternative terminals to have discovered on alternative terminals to the railway in at Khor Aldullah north of Kowii and ort troops down to establish poste the re which rulant d until the eye of the war

Meantime commercial penetration was active. The firm of Won khalls was exceedingly extin and ispanded all one the Gulf rue on prolitable Various attempts were made to The Shight of Shargah grafted a concession to three Arab te work the red oxid deposits on the island of Abu Musa and the Arab- transcer of it to the Wonekhaus firm. The sheikh proit to ill wong mus arm in steam pro-tested and with the as I tance of the British the intruders were removed the German Press protested but the Government conflict themselve to a formal raviat Arother Grimer agent ought to obtain an irrustion concession in the Karmi Phe Reuburg America Company in rid the Gulf trad with a great flour h of trumpe's and a di play cal culated to impine the Arab. This was the position when three years before the war as unous attempt was made to arrive at an agreement between Great Britain Germany and Turk y which would rigularise the position It provided that the terminus of the Bughdad Railway was to be at the true commercial terminus Basra No extension beyond Basra was to be made without the sanction of Great Britain Turkey agreed to

aband in her pretention to suzerainty over the lateriors in the internal affairs of the Sheikii Sahrein Islands Maskat and the territory of the land recognised the British conventions with Truisal Chaffe and to evacuate the Peninsula Mubarak. This agreement and a complemen of El Kair near Bahr in Great British acred to recognise the suzerainty of lurky over to be ready for signature when the war broke kowit on the condition that lurky did not out

#### THE EXPEDITION TO BASRA.

At this point we may conviniently summari a propries of the expedition to Buglidad dihough a quisideration of the position of Tax-12 and Baphdad in the polity of the Gulf prop rly belongs to a later teston. For some rime before the negual outbreak of heilblick on October 29th 1914 the britch how remember had known that the part lipsthon of Turkey in lay war on the side of (criming was in with he they were determined not to give the Turks any recus for hostilitic but of the same time the voice prepared A Rooms Brigad under Prigad recursal Delamain was rent to the ավու Hand of Bahram to be rady for all omer Constantity when the Turks com manyd hostilities it was in a polition to set with vigour. The first Britt h troops much de vovember 2 th and took I to an old to him d lurkish fort and cable statim. They then proceded thirty miles up the river and landed if Sanlych in order to protect the work of the And Preise Oil Company which is working a valuable petrol um concession in the valle v or the Karun (q v ) On November 13th leutenant General Sir Arthur Barrett who had been placed in command of the operations stived with strong plaforcements and on Now under 15th drove the Turk from part of the village of Salitin On November 1 th the thois roren moved north found Scham crass until the Turk at Sahall or the river and after a hart action in which the Dorsets cap chally di tingui hed themselve diove them our with our iderable los the morning of the 1th cam in unexpected intilig nor that the Turks had evacuated Basra un I that the Arabs were loothing the town ir Arthur Borrett pushed forwird with all n ed by land and river and on Vovember \_3rd the British troops formally ent red the city The notables were a sembled, a proclamation faring the r seems for the occupation and the r ad and salutes w re fired

Importance of Basra -The importance of Ikera was for long littl appreciated by the littleh people who had their gaze directed on the possibilities of kowelt as a t main for the Bachdad railway and to the traditional glories of Baghd d Itself But Basra is bound to be on one or the great ports of the world The main portion of the city live p the contract of Aschar Creek a quarter with narrow un-lared absects two miles from the river. The population is estimated at 60 Mio but ther an probably many more profile in the outer subtribe. The population is very mixed muluding many Jews and Armenians The furk are few in number and consist matriy of the officials and the garrison. The merit of us just below the confluence of the Tigris

with the Euphrates and then for receives the trails of the twenty relited only sixty miles thoughtle a and the river channel is so deep that it east raily be made available for to vill as of the larg at tonnage that can through the Sag Canal The only obstacle of the Shart of Arat and as this! of the softest mud it could a lly be dredz d Basra must or neck ity by the port of the Middle East cives deant government in Me opotenda and the dradeing of the law and it will become a powerful commercial factor in Asia

The Garden of Eden-After their return ment from Basin the Furk established them elv s at Lurina forty mine nile northward where the partially blocked channel of the Louingares joins the Tierrs thi is often said to be the site of the turden of Et. n. It was determined to expel them. An expedition for this purpose 1 if Bara on Desimber 3rd, and aft r proliminary successes found the Turks in the foir said so strongly entrinched that contone in it were needed. These arrived in Desimber with the river was boldly crossed. there Luria and thin at midnight on the 5th a small manur came down the river con y vin an offer from the late tox mor of Barra Sublit Pey to surend r An unconditional ure miler was demanded and reely deand at one ociock p.m. on the 9th the Turk laid down there are in Venuary a force of furks with it gues established themselves on the flatts (mil about even miles north of the Mexics (mup norn Kurus and were shelled out more when flabting was to follow

Fight for Shaiba — The object of the Turk was now to recapture Basra. They had no lurge force ne trer than Bachdad which lies on the Tigris 500 rull s (by river) north west on their soon and a toy fiver horse west for Bases. The linet found to Bases down the Their was nows it by the 2 to the Bridge augustion of known The Turksh forces ther for came down that river as far as Kut al Amenda (220 mil s from Lagidad) and then along the Shart I Hal the canal which connect the Tigris with the Tuphrates to connect the lights with the lughtere to Va arly hon the last river. From this point about 110 miles north meet of Ba ra they marched who is the deart 1,000 strong. At Shalba 10 miles west of Basra they encountered a B it h force much inferior in number Here on April 12 14 very severe fighting occurred. far more severe than any previously experience d in Mesopotanda For ome hours on the last day the leave hung in the batarce and at one time our retirement scemed mevitable. In the end we were completely successful. The Turks had at least 5 000 casualties ours were about 1 300

Capture of Amara.—After our capture of Kurns on D.c mb.r 9 the Turks occupied a

number of low hills to the north mon which they fitfully bombarded the town it was necessary to evict the enemy from their positions before we could advance north of Kurna The problem was a formudable one by cause the whole country for many miles to the north was underseveral feet of water except a few ; olated sandbanks and hillocks such as those occupied by the enemy Tue country is thus fooded every year on the melting of the snow in the iar north round the head str any of the Ligns The ground remains the dr water for his month or more and the only thing to be done was to attack the enemy a positions in boat. The local boat call d a hillium has a hingth of about Soft and a beam of 24th and a propelled by poles like a punt or in diep water is paddles. The whole of the bird of stationed in Lurna was england to a good many week in I arning to payight they bolt \t 1h առ tarning to having to the four bold on various other bold and rait to enable them to approach within lange of the furken loss tion At daws on Mry I the whole bright moved out of huma for the atrack b veial hundred boots were employed each holder a 10 min Machine and mountain anna wer mounted on pair of boths volat fourther The spectacle of a height of timentry thus idvaning across flooded country was perhapunique in the latery of the British and it dis-arrines. Before the advance the lurkely positions were bouldard drown the Tigns by three sloops of the Royal Navy by the Royal Indian Marine steam r Lawrence and ly the attacked were occupied by Turks and Kurd with about half a dozen Gerrar Most of the flooded are a to be crossed was thirly covered with reeds through which the progress of our boats was very low The meny had therefore in agnitisent target. Futurately they had not good. They had six field guing but then am munition was inferior and their guiners your

On Norrolk Hill three rule north of Aurola and the first position to be attacked the enemy ) put up a rairly good hight and the hill was not aptured without a good deal or bason it work our men leaving their boats and ru hing the furkish trinck. From all their other post tions six in number the en hy fled as a result of our bondardment or when their rite at was cut off surendened without rist time. They had previously sunk a veral large large. agrees the Tigns a ten nill s north or huma in order to pi vint our stam V sais from cutting off their refrest. But the work was not thoroughly done and by the evening of June 1 the second day of the operations our steamers were pat the obstruction and in pursuit of the fleeing enemy. On June 3 we occupied Amarah 8" inites above Kurra without opposition. This town has a popula without opposition 10 town the town the topological the most important place on the Tigris between Baghdad (20 miles down stream) and Ba ra (130 miles down stream)

ben wounded there Our own constities during these four days were one British office : killed and 20 other casualties. The prisoners taken included three German non-commissioned officers I'm other Germans believ d to be officers escaped into the marshes but two or them were killed within a few hours by Beduin

Nasriyeh —The capture of Amera was of more importance than the expulsion of the lurks from one centre. If the map is studied it will be seen that after their retirement from Basia the Furks had three lines of advancefrom Amara they could move against the valley of the Karun or bereat will from Kurel of the Aurun of Deview with from Accordance Aurus a turth r north they were in a position to come down the Shart 1 Ha to Nacijali and then turn extwards towards I uses a they did when the attacked at Sharba. Now the advance exerts the area was accompanied by we pure elevation up the kerne end it bleved that the Pulks who retrictions better Concial Coringe naudo) anu oluma is the Crimial Criming of pink obliming themselves out the from their best at unity suffered of 1.18 from the Min A the who set matter of the the Min A the who set matter of bith the description of the the Turks still had doubt him of all vine shown the Bustle (1 His and down the Tiers). In metop ration were described for the Minds of the Mi d start d to force them back along the unwh line of communications are the Time The fir take aimed at the capture of Nasriyeh The operations under General Gorrange which culture and toward the end of July in the billiant vectors for British arms jut controlled vasarisch in den the capture of Nasarisch itself occupied alm st exactly a month. As in all op rations in W op tames these were conductifie much by wat ras by land Through out the advance the heat was intense and the secret few dess that the temperature did not retrict 11; digressing the shade. By day the heating the grows of the glass from the water were almost and the light from the water were almost and the light from the me rabl mosquitos gave little rest to the w ared troup

The Furks had constructed a dam on the Haberka thannel a short distance outside the Hammer lake Although the existence of this dam was known it proved a much more difficult obstacle than had beck at first spected The Turks chor the site circluly and in pended a va t amount of labour on its constructior for it took the British a week or hard work to pas their by no mans numerous ships through it. All this had given time to the nemy to bring up reinforcements and the British were now faced by a force greatly upp rior in numbers to their own The enemy or upied an entrenched position on both banks of the channel at the point where it leaves the I uphrates. On the 5th the British attacked the furkish position on both sides of the channel l fantry moved along either bank assisted by the fire of gun boats which moved up the channel b hind them sweeping for mines. A fleet of By the evening we had captured 80 officers of the lake with the infantry attack protection on vorfolk Hill and a tow of the prisoners had officers were found. billums (small flat bottomed boats) and the 30th Mountam Battery on rafts moved up the lake with the infantry attack protecting their flank from a horde of Arabs who threatened



enemy's trenches were well constructed and were held by a mixed love of Turks and Arabs, but the attack did not falter and so resoluted with the relation of the problem of the British push on that the y not only cootfield the British push on that the y not only rates in beliums they attack d the Turkish rates in beliums they attack d the Turkish Artillery position and captured a complete battery.

The Turks r fired up the river and on the exit dayth Britin pulsed on r adming A and on the extening ofth ofth On the 8thilt became evident that he are no inforcements had reached the one up General of orning realised that he mult wait until he was in a stronger position to attack, and set work to strengthen he own of fences. The act of the reinforcement with a country of the nation of the real of the reinforcement with the new on the 2th he was able to capture the late would not the point of the baronet the Turks refuling eighter to surrender or take the french on the temperature of the baronet the Turks refuling eighter to surrender or take the french. That inger that the time a good did all of opposition a the cheeff of the town however and is the time the troop or able to march to all reful tance we at an end. All the artiflery which the Turk had at ha riveh 17 guns including one has well as about a thou and prisoners and large stores of rise and Baraturion.

detailed account of Kut at Amara -- At v Kut el Amara — Al v deta led account of the minoroparation, which led up to the buttle on the 27th and 28th 8 premier would fill many columns for the Brit here had left the lower reache in the reaction account in the miles away from 11s base with 11s a of communication to rething down the winding more riain cour e of the Tigre. The Turks had taken up a position on both bank astril d the river with the int ntion of preventing the Br te h forces from reaching Kut of Amera. The line of def nor las almost north a d south for here the river flow suproxin ately from We tto East A lew mules above the Turn she position the river bears again more to the North. A boat bridge crosses the Tigre three sulls b low Ent el Amara The differe constructed by tritched for about any mile on eith r side of the river A cold lry a called brain he off at right angles to the right bank of the river and it artificial bank twenty for high were the only outstanding f ature in the whole monotonou landscape. A bridge of boats had been constructed at the place or communication and thi bridge was an important factor in General Townshend plan for attack Broadly this plan us to mak a d most ration against the on my right that I on the right hank of the river to give him the impression that this fiank was to be the old of of the main attack and then by means of the bridge to cross to the and then by means of the orouge to cross to the left beank of the river with the majority of his force and attack the Turki h left Dawn on the 27th found the whole of the crose in position. An immediate attart wa made and in a short time the whole of the fine was a made and the short time the whole of the fine was the control of the c engaged by the enemy's long range fire The British troops on the right bank developed heavy artillery and infantry fire driving in the

their right would be reinforced and their left wrakened As soon as light appeared, General Delamain developed his force for attack. The greater part were directed to a flank attack on the enemy sextreme left, while the remainder advanced to a frontal artack against the left portion of the wotton of difence between the portion of the section of difference between the two murches. General Five at the same time diveloped all historingth in the hope of being able to close with the Turks in front of him. Or General Delaman a force the flank attack oon found that own g to the extent of the marsh the route which they would have to take was much more cliquitous than had been expected Meanwhil the frortal attack had become so seriously engaged that General The small desided to pish home an attack with the troops at his di posal on the extreme I ft of the Turki h def no in front of him The iniarity ru hed forward and captured the firtillar of trunch at the point of the finished for a de a tating fire swept them from the rest of this 5 tion of the definition the rist of the hands of the menu. A wheel to the 1 it in the max of trendical Irright them for to fact with very from a bill, of Turks and after a gallant attempt to fire their we found they were compiled to away the lading troops of the flanking fore which were now coming round the march function with these was effect d at about half no t ten in the morning Comingin on the right they swept the whole of the Turkish defence hatwoen the two marsh a from left to right only completing their task at two or deed in the afternoon they were tailing for want of water but by marching round the back of the enemy's position between the river and the marsh General Is lamain hoped to reach the river at one of it bends belone was called upon to nong the erems again In this hope the column advance d and at about 5 o clock in the afternoon had reached a point to had the Turkish polition about a mile and a half from the river. Here they uddenly came under a very viol at autil ry fire from the turther bank of the river and to neral D lagnely r all ing that they could not reach water by that route d t righted to attack the Turki h no ition from the rear and changing the direct tion of hi culumn marded traight towards the fraches This we about half part five and the light wa b glumng to fail Harely ta chan, I lit if in his carried out when the British column realised that they or lit often by carried out w n marchin k parallel to a large force of the nemy sinfactry a d guns at a distance of about a tall. Ther was no time for prepara-tim or orders for attack nor indeed was there any ne d for them. An order to right turn brought the Britishi fantry and curs face to face with the Turkish force Without firing a shot the troops turned and advanced on the in my The Turk had railed the situation at the same moment but fortune favoured them for the road along which they were passing lay along the edge of a disused sun ken parally my mong the cage of the control watercut and they quickly slipped into this Though suffering heavy losses the British pushed straight on only paralled to return the

hre before they closed with the enemy. At leaving many guns and much ammunition hre before they fine d with the enemy At leaving many guis and fund ammunition; good water the order was given to fix beyonets. The example complet Rut of Amara on the and se the whole line surged forward to the inorming of the 23th and the pursuing force final assault the Turks broke from their shelter. I seld it by river on the morning of the 30th and find. This was the force seven regiments when Kutsel Amara was formally occupied by with guis. With which had blin was respected in the The Turks. In British forces were, on Documber 1st camuated the whole position during the night.

#### THE PERSIAN GULF

at present the corner stone of the Indian frontier tain France attempted to acquire a coaling problem is one of building indefiniteness. Our first appearances in these waters was in connection with the long struggle for supremacy with the Portuguese the French and the Dutch who had established trading stations there with the capture and destruction of the great entrepot which the Portuguese had established at Ormuz and the superses ion of the land route by the sea route coupled with the ap pearance of anarchy in the interior the import pearance of snarrhy in the interior the import tance of the Gulf declined. The Indian Go-vernment remained there primarily to preserve the peace, and this lash, it has ance successfully performed. Paracy which was as Icstructive as the cavage of the Haibary consume was stamped out the Trurial Chiefs who occupy stamped out the Irutal Criefs who occupy the Pirste Coast were gradually brought into close relations with the British Government and the vessels of the Boyal Navy have since kept watch and ward in the Gulf whilst our counts have regulated the external affairs of the tech purpose the techniques. the Arab rulers on the Arabian Coast

#### A Policy of Abnegation

In return for these writes Great Rritain has claimed no selfish advantage. The water or the Gulf are as free to the navigation of other flags as to the Red Engign The only term tonal possession is the tiny station of Eassidu Point after point has at one time or another been occupied by Briti h troops. Mulanumerab and the lower valley of the Karun valley were occupied during the war with Persian in 18.7 Bushire was long held in the same connection and still bears marks of our regime in the ore and still bears marks of our regime to the ore-tolerable road. The I land of Klarak wa occupied from 18° to 1944 and again in 1807. We had a military stateon at Kase during the Pirate ware, and a military and naval station at Klehm from 1820 to 1870 1384 was one pied as a cable station but subsequently re-turned to Persa. The only acres of the waters are British. the only rables are British British India Computer and two steamship ervice, are run by the same corporation Apart from these direct acts, Great British might at any time have seized the whole Ara bian Coast and the Perman shore But in pursuit of a resolute self-denying ordinance she has kept the peace and demanded no re

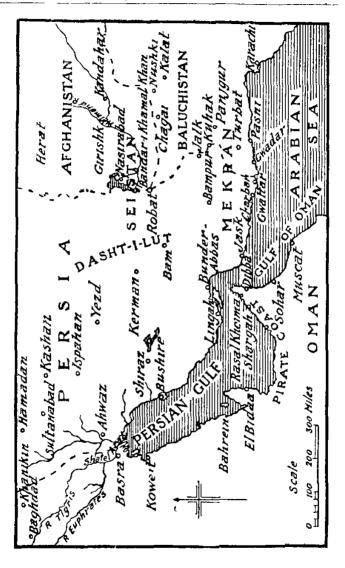
#### European Intrusions.

Left to herself, Great Britain would desire no other policy But the affairs of the Persian Gulf have passed into the region of international politics, and the past quarter of a century has witnessed successive efforts to turn the British Position Basing her interference on a treaty at our disposal

The situation in the Pirman Gulf which is which gives her equal rights with Great Bri station at Jissa near Maskat and subsequently obstructed British efforts to stamp out the slave trade and the arms traffic which was supplying weapons of precision to the tribes on our North Western Frontier Turkey, whether acting on her own volution or as the arean courter of Germany threatened the territory of the Sheikh of Bahrein, who is in special relations with us and of the Sheikh of Koweit who owns the only harbour which would make a Gulf terminus of the Baghdad Railway Persa stirred from Tehe rate when Russin influence at the court of the Sheikh of a superme established. the Shah in Shah was supreme establi hed a our good friend the beikh of Muhammersh Russia and Cermany sent heavily subsidiated men hant ships into the Gulf in order to esta bli h traduig rights and po ted Consula, where there wa neither trade nor legitimate interest the last of these machinations a German at tempt to army a concession from the Sheikh or Shargah wa comparatively recently de feated. The collapse of authority in Persia has raised in an acute form the whole future of th Persian shore. In short the situation his changed from one where the influence of Great Butain was supreme to one where it is challenged at every point more especially by the midn of process of commercial strategy at which a nation brought up in the traditions of free trade is handicapped

#### The Gulf and the Empire

With these attacks there has come a closer appreciation of the bearing of the Persan Guli on the defence of the Indian Empire the strategic importance of these waters has been laid down by a writer of unchallenged been laid down by a writer or authority and unbiased intid. Writing in authority and unbiased fining Mahan said. Con co-sion in the Persian Gulf whether by formal arrangement (atth other Powers) or by neg lect of the local commercial interests which lect of the local conduction interests which now underlie political and military control will imperil Great biliain a naval attuation in the Paither Last her political position in India, her communicial interests in both and the Imperial tie between herself and Austra lasia hollowing this successive British Gov vernments have made declarations of policy which are satt factory as far as words can go Speaking in the House of Lords on May 5, 1903 Lord Lords has lower then Secretary of State for koraga Affairs said. We it # Hs Magety a Government) should regard the esta bishment of a max if hose or of a fortisid port in the Persian Gulf by any other Power as a very grave mensee to British interests which we should certainly resist with all the means This declaration of policy



has since been endorsed by Sir Edward Grey could not make good, and France had to ac But the question which armse is whether in cept the poor alternative of a leased depot has ance been enumered by an early deep in but the question which arises is whether in view of the introsion of foreign Powers with aggressive designs, and the changing condi-tions on the littoral the purit ne-gative policy which has intertor astaled Grant Britain will suffice. It is a hard fact but a true Entlan will kinder it is a nare fact but a true one that it Brilleh authority disappeared to morrow, it would leave no other relic than the Abandan oll refin it a few consular build ings and the tradition of jutue and fail dealing. That is a question which can best be considered after a little survey of the various utradictions which are established in the Gulf

#### Maskat

Mask at which is reached in about forty eight hour from Karachu is out ide the Persian thalf proper. It has three hundred makes south of Cape Musandim which is the real entrance to the Gulf but its natural strength and his from the politics on the Gulf with which it has always been intimately associated

The approach to Vaskat is dramatic. The mail steamer gently field his way along a coast more black and torbidding even than the iron tound littoral of the full of Suer which is be familiar to the coastward passentir Sullens there appears on the coast the white linus or the trading settlement of Mattra which hes to the north of Muskat Then with a sharp turn the how of the steamer passe under a grunt rock painted with the name of the wardings which have visited Markat for half a century and enters the landlocked bar hour Iwin forter en w to by the Portuthe town the town itself clu ters on the shore said climbs the lugh ground behind it and it rell is but off from the Arabian desert by a stout wall on the landward side Form rlu Masket was part of a domain which embraced Langbar and the Islands of Lishm and I arak with Bunder Abbas on the Peissan shore. Lan that was a parated from it by agriculant and the Lersians succeeded in establishing their authorit over the posses that on the east ru-here sultan seed Fevrul the intellment Arab-ruler who reigned over Maskat only though h claimed a shadows suzeraints over the thiefe on the coast of Oman died in October 1913

The relations between Britain and Maskat have been intimate for a century and more it was under British auspices that the separa tion between Lanzibar and Mashat was effected the Shell have need a British subject in return for the suppression of the slave trade in return for the suppression of the start trade and in 1892 scaled his dependence upon us by concluding a treaty pleting lums. In not to cede any part of his bindery without our con-sent. Foreign intrigues with Masket did not commence until 1894 when the French in pursuit of the pin pricking policy through which they were avenuing Egypt and perhaps to asset Russia, established a consolict three the Multon was included to each to France A The Bullan was induced to code to France a Madagas: ir for the more effectual suppression coaling station at Jasa but this we such a fithe slave trade on the East Coast of Africa clear violation of the Treaty of 1892 that it B. an Order in Council which came into force

A more serious dispute arose over the use of the I rench flag to cover the slave trade Native craft would secure the protection of the French flag by registering at Jibutil and then defy the Saltan of Maskat and they were enabled to traffic in slaves with impunity masmuch is there was rard; a French warding in the neighbourhood to search the min April 1963 the frouble came to a head, and the French flugship Inferret was sent to Masket to demand the relea o of dhows which had been arrested the refer of of above which had been arresed for a flagrant breach of the quarantme rules. This emphasised the necessity of a permanent sottlement and the question was reserved to the Higue Tribupal and a working compromise arranged. It was adjudged by the Hague tribu attanged it we adjudged by the Jague that nal in 1905 that after January 2 1892 I rance was not entitled to authories vessels belonging to utjects of H H the Sultan of Ma kat to ily the French flag except on condi tim that the comment of fifters out had estab It lied or should etablish that they had been considered and treated by Frince as hir proteges before the year 1863 though owners of thems who offere 1892 had been authorised by France to fix the 1 reach flag retained this authorisation a long as France renewed it to the grantee. The conclusion of the entrue with Lance put an end to these purpricks but one important issue remained outstanding until 1914 France claimed under the Anglo French Treaty of 1862 freedom of trade with Maskat was carried on for years a furrative arms traffic will the Cull tilles and ammunition being shaped from Lurone to Maskat and shipped from Lurope to Maskat and thence di tributed all over the littoral and even to the North West Frontier of India The extent of this evil compelled the British (fovernment to intervene and elaborate ar languments were made to check the traffic by arre ting the dhows carrying arms and by har rving the guniumors ashore. This is more fully considered under (unrunning (q v) In effect the Briti h warships had to witness the dumping of cargors on the shore at Maskat see them loaded into dhows and trust to then see them leaded into dhows and trust to them only villance to arrest these consumments on the bith seas. Prompted by the Colomal larty the Franch Government refused to yield one jot of their treaty rights in the hot that Great Britain would buy them out by difficulty. coas circus Buttain would by them out by urrender at 4 minus. The difficulty wa largely overcome by the e-tablishment of a bond on the discount of a work out of the discount have to be deposited and whence they are out a surely under certificates of distinction and he agreement recently and the surely of the surely of the surely out to the surely out of the surely out o of destination and by an agreement negotiated in 1914 the French Covernment recognised the his Arms Traffic Regulations and abandoned the privileges and immunities secured to them by Treaty Compensation was paid by the British Covernment to those French merchants whose tooks were remered valueless by the Begula tions

In 19, jurisdiction was given to the Vice Admiralty (ourt at Aden and the consuls within the dominions of Zanzibar Macket and Madagas: ir for the more effectual suppression of the slave trade on the East Coast of Africa

on August 1 1914 the Act had been extended so as to comprise the Court established by the Persian Coast and Islands Order in Council 1907 Thus the Counsuls General for Fars and the coasts and islands of the Por lan (ulf will be able to enforce the suppre alon of the clave trade in that neighbourhood which was agreed to be desirabl in a treaty made with the Persian Government so long ago as 1382

The Sultars have been in a difficult position for a good many years. They hold their capa tel of Maskat, the adjacent town of Matra on or two other courte an and certain poste in the interior but as the posses is a troop they and themselves mable to social the rowing Bedun who wand r at all over most of the state. When the Bedun valed mone that we see wont to ride down to Mark the central of the data trade and threaten to ank the town The lat Sultan who died in 19 3 was generally comp fled to bills them to go a use. The rising which began in 1913 was a mon serious A Pr tenter Mille Abdullah B ized the milard town or semail which stands in a pacious i dil valler wher at grown me tof one dates for which Macket is femous. Or at Britain has special interests at Masket but d apon various dominent the cheef which is one drafted in 1891. The late sultain a keil in to protect him again to the Pretender Weil said we would protet he capital as I can to but could not and an expedition into the interior against the cluste British is ent Indian troops to Masket and they have by m there everying It I guit probably that the tribeanen were exerted by the new or the reflection were everythed by the new of the short which how ten approachable by boat creat War and determined to put their own operations more vigorous. The rules of the short which how the new tensions respondingly to the results of the state of the s forces and the attalk was driver back that the range consisting amounting to the man. There were no further attack and the r bels wer r ported to be greatly do heartened

Brilish Consul Major H Strait CIE Agency Surgeon Vacant

#### The Pirate Coast.

Turning Cape Musandim and cutering the Gull Proper we pass the Pirate ton t con trolled by the six Frucial Chicle. The ill name of this territory has now coused to have any meaning but in the early days it had a very real relation to the actual confitions. The pirates were the boldest of their kind and ther dld not hesitate to attack on occasion and not always without sucres the Compaix a thips of war large expeditions were filted out to break their power with such success hat since 1920 no considerable punitive measures have been necessary. The Truck a chiefs are bound to Great Britain by a bits of engagements, beginning with 1806 and ad ng with the perpetual treaty of 1853 by which hey bound themselves to avoid all hose titles at see and the subsequent treaty of 35 3 by

every year on a tour of inspection. The German attempt to obtain a concession from the Sheikh of Shargarh has been mentioned A more party from H M S Fox searching for contra-band arms at Debal was fired at by the real deut Araba and five men killed and nine wound

ed The Sheikh made ample amends to the British Resident, and submitted to a fine. British Resident, and submitted to a line. There was at first the suspicion that this ensure arose from the spread of pan islamism on the coast, studiously fostered from Constantinople and that it indicated a weakening respect for British authority. But fuller enquiries tended to show that it arose from an unfortunate series of misunderstandings. The commercial terms series of misunderstandings The commer cial importance of the Pirate Coast is increasing through the rise of Debal Formerly Lingali was the entrepot for this trade but the exactions of the Berlan Customs officials in the empley of Persa has driven this traffic from Lingal to Debal The Truesal Chiefs are— Debal Abu Thabee Sharrah Alman Um-al Gawam and Ras el Kneyma

#### Bahrein

North of the Pirate Coast lies the little archipelago which forms the chickship of the Sheikh of Lahrem Of this group of a lands only those of Bahrein and Maharak are of any size but their importance is out of all proportion to their extent. This is the great centre of the Gulf pearl filters which in a good year may he worth half a mullion pounds sterling anchorage is wretched and at cirtain states of the tile laps have to lie four miles from the makes the sheigh the richest ruler in the Gulf

throm has passed through more than usually chequired expirences. Not the least irradiable of this are the efforts of the Turks. to thicaten its Indpendence These took definite form in the third quarter of the last century when Midhat Pasha Vall of Basra occupied the promontory of El Kater as well as El katil over against Hahrein and converted El Hala into a district. The war with Russia rut an end to these designs but they were revived and the Turks at El Kater ure still u m nace to Bahrem but negotiations for their with framulare pinding The Sheikh by the treaty of 1861 entered into a pocial sugagements with the Branch Go crament by rights are guaranteed

In the neighbourhood of Lahrein is the vast burving ground which has hitherto baffled archaeologi ts The generally accepted theory is that they are relies of the Phoeulclans who are known to have traded in these waters

Political Agent Major T H Keyes.

In the north west corner of the Gulf lies the which they undutook to prohibit all getter port which has made more stir than any place the traffic in slaves. The relations of he Iru ald Chiefs are controlled by the Bri sh Rest of Kowell lies solely in the fact that it is the sent at Bushire, who visits the Pirtz Cosst one possible Gulf tempinus of the Bughdad Railway This is no new discovery for when of Bushire and Shiraz This importance has the Euphrates Valley Radway was under dis General Chemey selected it under the sitemative name of the Grane—so called from the resemblance of the formation of the Bay to A pair of horns—as the sea terminus of the line Nowhere else would knownt be called a good or a promising port The Bay is 20 miles deep and o miles broad but so shallow that heavy th pense would have to be incurred to render it suitable for modern ocean going steamers is sheltered from all but the westerly wind and the clear thriving town is peopled by some 20 000 inhabitants chiefly dependent on the their boliness and hardshood

The political status of Kowert would battle the ingenuity of the international junt to find a definition Nominally the Sheikh owns allegiance to the Sultan of Turkey from whom h has accepted a honorary title of haimakam or Local Govern In the he has aways been independent In 180 the Turks att mpt of to convert their normal eight, into something more actual but the sheakh Mula rak approached the British Government and place! his interests under their special profection When however the German survivors earmarked Lowert for the terminus of their line the position of the Shrikh wa ir directly attacked to the north of Kowit there is a d cp indentation in the lowing shore chiefly occupied by the swampy island of Bubyan Here a long parrow channel runs to Umm Khasa the Khor Abdulla lt L some times held to be an altimative to koweit as a Gulf ferming and with a view to earmarking it the Turks have established military posts at Imm Khasa and on Lub, an Island time appea and on Lingan Island. The a tend by domestic feut raids by 80-4 and attack by land wheth Mubarak with a Brith backing his fended of all assaults on his postion and with mali ation of the fact that Lasra mut in any circumstances be the commercial terminu of the Raghlad Railway the impetance of Koweri has tended to recede

Political Agent It Col W G Grey

#### Muhammerah

On the opposite side of the entrance to the Shatt el Arab lie the territories of a Sheikb who tands to the P r-ian Government in much Aharsal of Mukammersh Nominally he is without taking account of the possibilities of subject to Teheran on whose I half he go the irrection schue propaged by Sir William verns his territories as Cov mor in practice. Willcocks which hould revive the glories of the is more lik a semi-independent vassal. In ancient Mesopetersmis and make Arabistan personal characteristics too Sheikh Kharzul another Egypt. Liven in a occan going attemption to the possesses many of the qualities, in bolk from its wharves. The one obstacle of an administrator and has reashed Personal to the development of the port is the baraticle encountering to the port is the baraticle encountering the second properties of the Shattel 1 mb. where there are

grown since the Anglo-Persian Oil Compani-established refinences at Muhammerah for the oil which they win in the rich fields which they have tapped near Ahwat Its importance will be still further accentuated, if the scheme for a railway to Khorremabad by way of Distril matures A concession for a road by this route has long been held by a British Company and surveys for a railway are being made. There is a tacit sasirance from the Persian Govern ment that if a practicable scheme is put forward they will facilitate the work. Such a line, morting the projected branch from Leheran to Khannikin would intercept the trade of Central Ananual would intercept the made of cention Persas and make Muhammerah the princi-pal outlet for the commerce of the country Shelkh khazzal is believed to have formed an excellent working understanding with his brother chief a ross the water and as the head of the great Kash tribe he is no mean power in south wistern Persia.

Consul at Alwaz Captain E W C Noel Consul for Arabistan (Muhammerak) Lt Lo' R I Lemmon

In a sense Basra and Turkish Arabistan can hardly be said to come within the scope of the fronters of Inda vit they are so mussolably securited with the pointes of the Gulf that they must be considered in relation thereto Basra is the inevitable sea termings of the Baghdau Railway It stands on the Shatt el Arab sixty mule from its mouth favourably situated to recurse the whole water borne trade of the Thins and Euphrates Rivers. This is already considerable although lurkish obstruction has closed the Luphrates to navigation, 18 well as the lights above Raghdad-brtween Basra and Baghdad there are two services of dur stamers one controlled by Messre Lunch Prothers and the other by a Turki h Company The local traffic is valuable for the richness of the date groves on either side of the Shatt cl trab is indescribable thurs is a considerable entropot traffic whilst Lasta is the port of intry for Baghdad aid for the trade with Persia, which follows the caravan route to Kerman hah and Hamadan When the Baghdad Rallway is open Bay a must absorb the whole tra le of the eastern zone that is the trade which the same relation as does blitch Mubarak of finds at easier outlet on the cost than at Alex Now it to the Government of Turkey—shrikli andretts on the Mediterranean That is Kharsal of Milanamersh Aominally he is without taking account of the possibilities of subject to Teheran on whose I half he go the irrecution seems propared by Sir William save one-despite his strong antipathy to the no more than ten feet of water at low tide, and agents of a centralised government the Per where steamers drawing more than exteen to agents of a centralised government the Per shane steepers drawing more than exteen to shane have just all officer of their Beignan eighteen feet have even at high tide to dis Customs services at Muhammersh. The town charge part of their cargoes, into high tide to dis Customs services at Muhammersh. The town charge part of their cargoes, into high tide to discover their particular than the control in majoritance since the opening of the Karun River route to trade through the enterplies of Mesars. In the majoritance are the majoritance and that done a first through the enterplies of Mesars. In the majoritance are prevent it from becoming the port of hers. This route provides the shortest pass the Middle East and if ever the Baghdad sage to Ispahan and the central tableland and Railway is extended to the Gulf it will be for already competes with the older route by way political not for commercial reasons.

Turkish Arabia (Baghdad) vacant Residency Surgeon and Assistant to the Resident, vacant British Consul Mr F E. Crow

### The Persian Shore.

The Persian shore presents freer points of permanent interest. The importance of Bu shire is administrative rather than commercial It is the head justiers of Persian authority the residence of the Brit. h Resident and the centre of many foreign consuls. It is also the main tre of many foreign consum. It is also the man catrepot for the trade of Shiraz and compete-for that of Ispahan. But the anchorage is wretched and dangerous the road to bhiraz passes our the notorious kotals which previous the idea of rail connection and if ever a railway to the a niral tableland is opened the coun (r cial value of Bushire will dwindle to insign can value of district with dwindle to insign fleance. Further outh lies Lingah reputed to be the pretuest port on the Persian coast but its trade is being diverted to Deba! of the Puste coast In the nerrow hannel which forms the entrance to the Gulf from the Ara-bian Sea is Bunder Abbas. Here we are at the key of the Gulf Bunder Abbas is of some Importance as the outlet for the trade of Kerman importance as the outer for interrade of Aerman and Yezd. It is of till more importance as a possible naval base. To the west of the town between the Island of Kishin and the mainland. In the Clarence Straits which narrow until they are less than three miles in width and vet con tain abundance of water. Here according to sound naval opinion there is the possibility of creating a naval base which would command the creating a naval base which would command the Gull. The great obstacle is the climatic which is one of the worst in the world. On the opposite shore under the shadow of Cape Musandim lies an thir sheltered deep water anchorage Eiphin tone is first which the chinate conditions are equally with But hetwern these two points there is 11 pes libity of controlling the Gull just as chraking controls the Medierranean For many year Bunder Abba, somed large in public discussions as the pessible warm water port for which Rus is was seeking. Now it has reappeared in connection with the Trans Pet in railway. It is under stood that the British Admirality has ton that time meeting the Fea at Bunder Abbas, where it ine meeting the sea at Bunder Abbas, where it would enter the Briti b zon and whence along the thast of Mekran it would be com-manded from the sea. The Lussian concessionaires wish the line to strike the sea much further eat tither at the actual British from further each thintract the actual primar her ther Gwettur or at Chahbar where there are believed to be the makings or a deep-water port. So far the project has not passed beyond the stage of scademic discussion (q to Railways to India) On the Mekran const there is the cable station of Jash Mexran and the possible port of Chathar The British Covernment temporarily occupied Bushire in 1 11 in circumstance, narrated in Perals (q v )

#### The Admiralty Oil Contract.

A further complexity was introduced into the position in Southern Persia and Inferentially into Gulf politics when the British Government on behalf of the British Admirstly ensered into partnership with the Anglo-Fersian Oil Company for the development of their old in ordinary shares of the company, £1,000 in

Political Resident and H M Consul General for I fields in the neighbourhood of Makian i Nophtun

The Concession—The concession which the company was formed in 1909 to work was originally obtained in 1901 from the Persana Government by Mir W K D Arty. It granted the exclusive right for 60 years "to drill for produce pipe and carry away oil and petroleum products throughout the Persian Empire exc.pt in the provinces of Arcrbadjan Ghilan Wasenderna Asdrahod and Khorassan. The Muzenderan Asdrabad and Khorassan The area covered is about 500 000 square miles area covered is about 500 ton square mines. In 1903 a Pirst Exploitation Company was formed as a pr-liminary with a capital of £600 000 of which ±544 000 has been assued ±20 000 in hares in this company was allotted to the Piruan Government, as well as £20 000 in cash Pirian Government, as wen as zero our means in return for the concession. When the Anglo Persian Company was started in 1909 the actual bodius, of this Exploitation Company was limited to one square mile in the Middan Naphrun field situated in territory belonging to the Debitter. These Products the territory to the Bakhtlari khans Under the terms of to the Bakitlani Kirsis chart for terms of a separate agreement the latter recrived 3 per cent of the shares in any company formed to work oil in their country and a second subsidiary company was then excated known as the Bakitlani Oil Company with a capital of \$400,000 in order to cover the area within their territory out ide the square nille allotted to the territory out ide the square nile allotted to the First Lytlonation Company in the First Exploitation Company the Anglo Persian Company now owns \$4.7460 or \$7.50 per cent of the capital and Persian shareholders \$45.540 or \$2.05 per cent in the Bakhtnarl company the Anglo Per in commany owns \$388.000 or 97 per cent. The Persian Government is paid a royalty of 16 per cent on the net yearly profits. The fact that both the Government and the Bakhtnarl tribes are interested in the presented of the recognition of the company as regarded as an prosperity of the company is regarded as an important factor in securing its position in a country otherwise rather unruly

The Fields —Oil has so far been found in quantity at Maidan i Nophtun, at depths of 1 200 ft to 1 8 10 ft in hard porous limestone and has been proved at Kasr i Shirin surface indications of petroleum which are very highly thought of bave also been observed at White Oil Springs Kishm Dahki Ahmadi Rudan kuh Champa and other places. The present production of the company is obtained entirely from the Maida : Naphtun area, where 30 wells have been drilled it iles 140 miles N N E of bave been drilled it lies 140 miles in the or Muhammerah, which is at the junction of the Shatt al Arab and Karun rivers. The oil is conveyed 100 miles by pipi line to the refinery. at Abadan while materials have to be transported to the field by river and across a difficult The workings are entirely country by mules. The workings are entirely under the charge of British subjects, the skilled under the charge of British subjects the skilled labour is mainly recruited from India and the unskilled labourers are largely Persians, no difficulty having been experienced in securing an adequate supply The Bakhtiari Khans police the field works and upper sections of posice the new works and upper sections of the pipe line and an agreement has been made with the Shekh of Muhammerah for the pro-tection of the refinery and the lower section.

preserence shares and £199 000 in debentures which will bring the aggregate capital in shares and debentures to £4,799 000. The existing ordinary shares are £1 000 000 and preference 1999 000 so that under the new arrangement the Government will hold the preponderating interest in the share capital. The debcatures already existing amount to £600,000. The six already existing amount to 1999 (6). The five per cent Preference shares which participate to the extent of 2 per cent in dividends after pryment of 6 per cent on the ordinary rank equally for voting purposes. The price at which the Admiralty will obtain the oil itself is kepter a secret. The snipply contract says the Admiralty Memorandum will be regarded in the public interests as confidential But it is the prime mercas as connaminating the supply for a term of years on a favourable scale of price of a reasonable proportion of the total estimated annual requirements of the Admi rulty on the present busic of policy of oil con umption and with due allowance for expan sion the contract is for oil only and the Admiralty will make its own arrangements for ransport. The agreement was criticised in one quarters on the ground that it involved the Butish Government in indefinite commit. ments in Southern Persia and that it might be mossary to employ troops to difind Govern ment property on foreign soil that of P rem But on the whole the agreement was well re ceived in the belief that it secured the British cover in the clim that it secured one binary on abundant supply of cheap oil full since the conclusion of the Agreement the torage capacity at Abadan has been very largely increased. The pipeline was cut by the lurks in 191. but subsequently re tired

Political Pendent in the Person Gulfbir Lerry Cox Kox i Kulk OSI

Deputy Political Ites dent Major A. K. Lievon

Rendency Surgeon at Bushue Major J Mel herson

Consul at Kerman 11 (c) ( Duril Consul at Bunder Abbas and Assistant to the

# Resident, Yucauf Summary

liom this bijet summary of the conditions on the Petsian Gull, it will be soon that the British position is a nebulous one. We have bestion is a nebulous one. We have been sought no exclusive privileges we have sought no exclusive privileges the many sought no exclusive privileges the many sought no exclusive privileges the many sought no exclusive privileges that the Black Soa had committed acts of war by support of all nations. But thus policy is in the Black Soa had committed acts of war by firm on Emissian slupe and bombarding Emissian main negative rather than positive. It is so could be recorded in the opening pages of this its singularly open to attack. It depends for setten

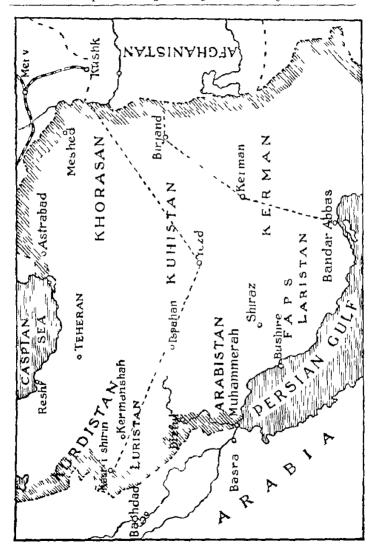
its permanent success on the maintenance of the actus quo in a part of the world where con ditions are fast changing nor was it in any way regularised by the Anglo Russian agreement. On the contrary, by that instrument the British zone stopped short at Bunder Abbas the British zone stopped short at Bunder Abbas of a line drawn from the Alghan frontier to cark Birgand, kerman and Bunder Abbas All Persia between this bose and the delimitation of the Russian zone by a line from Karrishirm Ispahan Yerd and kash to the unic ton of the Persian Afghan and Russian fron tars—that is to say the whole of the Persian foulf littoral—i in the neutral zone. The Agreement made no mention of the Persian Gulf but with the convention a litter was published from bir Ldward Grev to the British Ambaseador at Petrogurd announcing that the Persian Gulf lay outside its scope but that the Russian Government had stated during the negotiations that it in low deny the special interest of Great Britain in the Gulf and it was intimated that Great Britain reaserted them

At the present time of course the politics of the Person stuli and of Turkish Arabistan are in a state of uncertainty owing to the war Before the was broke out active negotiations were conducted between the British the Furlish and the terman tovernments with a view to the regularisation of the whole situation On more than one occasion it was announced that they were on the verge or completion The outline of these negotiations was that the Baghlad railway hould proceed as far as Baera as a purely German Lurkish enter ruise but that it should not proceed beyond Basra without the approval of the British Gov Basic without the approval of the British Gov-ernment Great Britain was to receive two directors on the Board to guard against differ entiation of rates. The Shukh of Kowett was to recognise the suscepanty of Turkey but he was not to be interfered with and Turkey was to accept the treaty of 1-32. The Turkish postto accept the treaty of 1×32 The Turkish pat Li Kater opposite to Bahrein was to withdrawn but measant acts or veiled hostility at Haghdad and Basrain september and October indicated that the attitude of lurkey in the great war could not be relied upon despite the repeated assurances of neutrality by the Grand Vizier In October therefore a British Indian force was sent to the Guli landing at Bahrein to be ready for all emergencies. It caused little surplies then when the official announce ment was received that the Tulkish warships

#### GUNRUNNING IN THE PERSIAN GULF

The question of guirrunning in the P issacuif is inseparable from the position on the North-Western Figurer because the copious supplies of modern rifles with suitable annunition from this source have transformed the inflitary value of the tribesmon Prior to 1897 this trade though considerable concerned Turkey and Persia rather than Great Britain Arms were brought from Europe France

Belgama and England to Ma kat where they were decharged and freely distributed round the Persau and Arabian shores. The Frontier tribe-sman had to obtain his modern ride by stealing even if it meant the murder of a sentry or else content himself with the jexall, or the rough country made rife which is turned out in small numbers by the Kohat Pass Afridis. But after the rising of 1897 these rifes began to



filter into the North Western Frontier replacing the bornely jezali. The Sultan of Maskat Issued a prolumation empowering British and Foreign men of war to search for arms and the first consignment select was in the as Baluchistan Still the traffic grew and in 1902 steps were taken to check it through the instrumentality of the Governor of Kerman As his authority was inconsiderable in 1907 the Government began to see that the traffic descends are the statement of the content of the second of the content of the had assumed proportions which could not be neglected. In the year 190,-08 the value of the arms imported into Maskat reached a total of £270 000 and it is estimated that between 1905 and 1911 no fewer than 200 000 rifles and millions of rounds of ammunitien reached the Indian borderland through Maskat In 1009 a rigorous blockade was instituted in the Persian Gulf and the Gulf of Oman

#### France and Maskat

The seat of trouble lay in the French com mercial treaty with Maskat and in the refusal of the French Government to abrogate it everthe as the price of concessions in West Arria. Inder this treaty arms were openly discharged at Maskat and dumped down in discharged as masket and dumped down in the town, under the eyes of the Dridsh Consular offic is and ince of war. They were then shipped in dhows across to the McKian Coast by Arab dhows and landed on the Persian shore. There Persian Baluch airdays received short there remain beautiful about the them and transported them to spots in the interior where the lighten caravans were saiding. These caravans where for the most part manned by children who transported the rifles right across Persia and Afghanistan to throughout the frontier. It is impossible to gauge the extent of the trade but thirty thou san'i rifes are reported to have been run to Kandahar in a single your and the supply became so plentiful that it was no longer worth while to steal rifles in India nor to manufactors them in the Kohat Pass

#### Naval Blockade

reper measures by a numeric of incident sources source of the control was pain to the French incident. The cruisers and a complete system of wireless whose arms were virtually impounded. The telegraphy established The Omani and traffic is now dead though the preventive Pirate coasts were watched by cruisers and the measures are being only cautiously relaxed

departure of dhows was communicated by wire less to Jask thence communicated to the boat orulers. These followed the dhows who slipped the cordon into shallow waters. Then at Bobat, the northern frontier of British Baluchistan a military post was established to intercept the caravans as they drew near Aighanistan

#### Traffic Moribund.

The effect of these measures was so marked that it nearly precipitated a serious outbreak on the North West Frontier The Pathans who returned from Mekran Coast about the beginning of June 1910 reported that they had been unable to obtain riftes because the British ships had put an end to the trada At the same time cash in advance had been paid for these rifles and the money lay in the pos section of the traders at Maskat Between the rifes and the Mekran fust where they could be landed was the seine of the British cordon Excitement was rife and only the exceptional tect of the British Offi ers provented an error. Further preventive measures were taken to break up the power of Barkhat Alian Governor of Biyaban who had been the most defatigable of the Laluch Sirdars engaged in the gunrunning traffic A small tore of Infantry was landed at (allag on the M kran to the short and marched to show themselves at Birl Then re-embarking it mad a second landing at Sirlk at the mouth of the Gaz Liver and encounts ring the gunrunners at the Pass of Pasisk inflicted a sharp rovers upon them Another episode characteristic of this traffic a landing party from H V S Hyacinth in December 1910 to search for rifirs was actively opposed and five Blutlackets were killed and nine wounded. Under the threat of bombard ment the Shelkh of Debal submitted to a heavy fine In 1-1, the traffic was brought under still clusir control to an arrangment with the Sultan of Maskat by which all arms landed at that port are placed in a bonded warehouse and only issued on a cortificate of destination.

The agreement was finally scaled when, in 1914 the French Government recognised the new Arms Traffic Regulations and abandoned Rored into indirect measures through the obstruction of France the dovernment in titoted the naval blockade For this purpose the ships of the last in lies Squadron were supplemented by a number of lanchers and both of the privileges and immunities secured by Traty

#### PERSIA

hern a seitous preoccupation with the Govern built to connect the Trans Caspian Railway nent of India. Seistan lies midway north and with the Indian Ocean and if and when the south between the point where the frontiers line from Askabad to Meshed were built the south between the point where the frontiers of Russia Persia and Athanistan meet at Tulhitar and that where the frontiers of Persia Color of our Indian Empire meet on the open concentrated on the North West Frontier and Color on the Athanistan and with Baluchistan, it commands the valley of the Heimand and the temperature of the South Color of Advance through Landshar to Queetta, and through Kahul to Peshawar to the commands the valley of the Heimand and the temperature of the Color of the Colo

The concentration of public attention on the rival an admirable strategic hale for future Persian tuilt has been allowed to obscure the military operations it is also middway attiware frontier importance of Selstan Let it has the track of the shortest line which could be

#### Anglo-Russian Adreement.

Whether with this purpose or not, Russian intrigue was particularly active in Seistan in the early years of the century Having Russi fied Khorassan, her agents moved into Seistan and through the agency of the Belgian Customs officials setentific missons and an Irritating plague cordon sought to establish in fluence and to stiffe the British trade which was gradually being bollt up by way of Nushki These efforts died down before the presence of the Monabon mission which in pursuance of Treaty rights was demarcating the boun of ITERLY RIGHTS was understanting one foundary between Persia and Afghanistan with special reference to the distribution of the waters of the Helmand They finally ceased with the conclusion of the Angle Russian Agreement Since then the international import ance of Seisten has waned Whether on ac ance of Seistan has wance whether the line of advance through "eastan or because of the discovery of an easter route we cannot de termine but Russian activities in railway con struction have been diverted to the Irans Persian route which would take a direct line through Teheran from Baku, and meet the Arabian Sea at Bunder Ablas or Chahlar

The natural conditions which give to Seistan this strategic importance persist Meantime British influence is being consolidated through the Seistan trade route. The distance from Quetta to the Seistan border at Killa Robat is 460 miles most of it dead level and it has now been provided with furtified poets dak bungalows wells and all facilities for caravan bungalows were and all tariffices for carryin traffic. The railway has been pushed out from Spezand on the Bolan Railway to Yushki so as to provide a better starting point for the caravans than Quetta The value of the trade carried over Rs 19 lakhs this route last year

#### Text of the Agreement

This Agreement which aimed at an amicable settlement of all questions likely to disturb the friendly relations of the two countries in Asia generally and in Persia Afghamstan and Tibet in particular was signed on August 31st 180; and officially communicated to the Powers in 3t Petersburg on September 24 After reciting the desire of both Overment to maintain the integrity of Persia and to allow all nations equal facilities for trade in that country the Convention states that in cortain parts, owing to their geographical proximity to their own territories dreat Britain and Russia have special interests Accordingly (Art I) To the north of a line drawn from Kasr i Shirin Isfahan Yest and Khakh to the junction of the Person Russian and Africantical Branan read and Arman to the junction of the Persian Russian and Alghapotan frontiers Great Britain agrees not to seek for itself or its own subjects or those of any other country any political or commercial concessions, such as railway banking telegraph, roads trans port or insurance or to oppose the acquisition of such concessions by the Russian Government or its subjects. II Russia gives a miniar undertaking concerning the region to the south of a line extending from the Aighan frontier to Gath, Burland, Kerman and Bandar Abbas III Bussia and Great Britain agree not to

mentioned All existing concessions in the regions above designated are maintained IV The arrangements by which certain Persian IV The arrangements by which certain Persian revenues were pledged for the payment of the loans contracted by the Shah's Government with the Persian Banque d Escompte and de Prets and the Imperial Bank of Persia before the signing of the Convention are maintained V In the event of an irregularities in the redemption or service of these loans Russia may institute a control over the revenues stuated within the zone defined by Article I and Great Bartain mer in the zone of the same in the zone. and Great Britain may do the same in the some and dreat bloam may to the same in the some such a control the two Governments agree to a friendly exchange of ideas with a view to determining its nature and avoiding any action in contravention of the principles of the Con contion

With the Convention a letter was published from Sir E Gree to the British Ambassader at St. Petersburg announcing that the Persan Gulf lav outsile its scope but that the Russian Government had stated during the negotiations that it did not dony the special interests of Great Britain in the Gulf and it was intimated that Great Britain in asserted them

#### Chaos in Persia

So far from improving the domestic situation in Persia the Convention preluded a condition of thuly disguisted anarchy There was little security for life or property outside the sone commanded by the Russian troops in the North and in 1913 the Central India Horse asolitary Indian Regiment sent to whitar was with frawn A dismal picture of Persian di order was drawn in the Persian Blue Book published in July 1913 Lord Curson summars ing it in a debate in the House of Lords on July 29 said — The picture delineated in this Blue book of southern Persia is a picture of a cotatry in the throug of dissolution given up to rapine and brigandage where trade is at a standard where armed bands rose about the country doing as they please where British officers are fired at and robbed and in one particular unfortunate case an officer was killed a country where the central Govern ment is impotent and local government ignored

In Northern Persis—and I must discriminate between Northern and Southern Persia-the con ditions are very different I do not say there is no in-security but life and property are relatively safe in Northern Persia and this is owing to the presence of an overwhelming force of Bussian troops in that part of the country

Lord Morley thus indicated the Govern nents policy I will put that common policy in seven propositions—(1) maintaining the spirit and the letter of the angle Russian Convention (2) maintaining the independence of Persia and avoidance of partition and an approach to partition economical, administrative geographical political (3) while faithful to the stability of our present alliance and to our real engagements we are faithful and to our real engagements we are halful also in an equal degree to the good of Persa.

(4) to uphold some form of constitutional Government (5) to lose no chance of easing the la the regions situated between the lines above- such and stanted at time to time to time we may consider it prindent to give (6) to enable Persia by money or otherwise to restore order on the southern roads (7) to avoid entangling ourselves in a polity of adventure in Southern Persia. I am irelined to add an eighth proposition namely that we must beware to being forced into a position which would offend the opinion and scattment of Maho medans in India.

Throughout the year conditions in Perels hav been extremely unsatisfactory On the outbreak of the war the Per Ian Government assured the British Government of its neutrality and apresed the hope that the territory or Parala would not become the scene of hosti-lities. As vertileless roving bands of Germans and Austrian arm d with rifl a and machine guns wandon'd through the country trying to stir up troude and so was the case with to stir up thou he and he was the case with Turkey provoke Persia to take hostly action against the Allie As the fruit of the persial cloud at the State of the first of the persial countries. was find at and slightly grand by a bulk t whilst his Indian orderly was killed. Nor or rious trouble occurred in the South at Bushire on July 12th the presence of liosalit tellwamen In the vicinity of the town was reported at the Residency Major Oliphant if the Such Regiment and Captain Ranking As istant Political Offier with a mixed patrol of infantry and sowars went out to reconnoitre Whilst returning the patrol was ambulated and came under a hot fire from a well concealed enemy by the first of the result of the tribes of the state of the state of the tribes of the state lawles ness pr alling amongst the trib smer of the binterland and the danger to the lives and property of British subjects in that region compaled the florenment to as una temporary occupation of the port of Bushire. The troops rapaged in this duty were stracked one the night of the Sid-9th \* phenis rby a body of tribe-men numbering some 600 kd by two notified local chieftans Reserves were brought up and we drove the chemy at the point of the appoint from the rullahs on the east of the laland where they had collected The cavalry then charged through the fugitives and the guns which had been prought up to the low cliffs at the edge of the island kept them under fire for two or three miles across the flat mar-hy plain lying between the island and the mainland Our casualties wer — Killed Major Pennington 12th Cavalry attached najor Penningum 1270 cavarry sensumu 16th Cavalry Zud Hufurnant Thornton I A R atta hed 16th (avalry Wounded --2nd Licutenant Robinson I A R attached 96th Infantry Licutenant Scudmore 11th Raj Lieutenant Laville 11th Raiputs and Hentenant Staples 11th Rajputs

The Persian Government having taken steps to ensure the security of British interests and the

(6) to enable maintenance of order the British occupation to restore order avoid entand renture in South and the second of the s

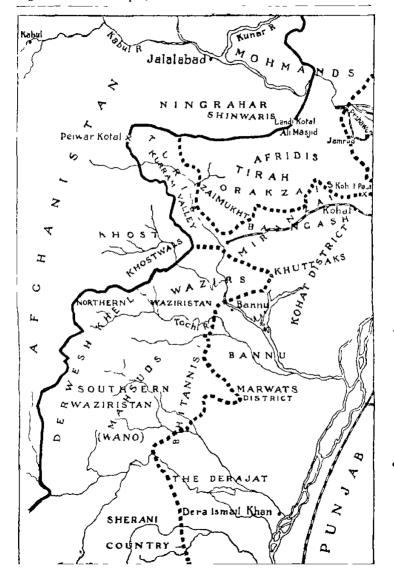
forwards the close of the year matters were brought to a head. The British and Russian Ambassaders were received by the Shah who openly dictared that he was a friend of the two countries During the year he aid the Germans had done their utmost to drive Persia into war with Russia Prince Eyn ud Daule and Prince Firms who are Bussophils intered the Cable to the Turk and Germans entrenched in the mount alrous riging had been expelled near the Turkish fronti r by Rus isns Muhkberel Sul tourish from a form a Covernor-General of South tanch a form a Covernor-General of South can Per la the hot bed of acti English intrigut was recailed and I lince Magnated Sultaneh an uncle of the Shah sent to succeed him with an adviser friendly to the Entente Later an anti British aftray was reported from Shiraz On Navember 10th the British Consul the manager of the Imperial Bank of Persia and other male British ubjects were seized and sent southwards to tribal territory where they authoriti a were sent under escort to Bushire and there hand d aver to the British authori lice unbarmed. This outrage was perpetrated by the Sw di hoffliere d gendarmerlein deflance of the orders of the P reian Government who xpr and their deep regret and promised reparation.

With a view to releasing funds for the efficient internal administration and observance of neutral obligations. Persia arranged with Great British and Russia for a monstorium in respect of the train and amortization of their loans but the service of the British Public Loan of 1914 was not affected.

H B M : Consul General and Agent of the Government of India in Khurasan — Lleut -Colonel T W Hall, C V.G

H B M s Consul in Sidan and Kain -- Major F B Prideaux C.I R.

Medical Officer and Vice Consul - Major D Heron I M S



#### THE INDEPENDENT TERRITORY

Under what is called the Durand Agreement with the Amur of Afghanistan the boundary the political influence requisite to secure our between India and Afghanistan was settled and it was definited in 1908. Int this divers ment of India have never occupied up to the border. Between the administration of the programment of programment of the Gomal Pass in the south to Kahmar in the north this is generically known as the Independent lettritor. He future 1 the kry note of the interminable discussions of fronter.

As a first stip Lord Curson took the control of the interminable discussions of fronter.

policy for nearly half a century

poncy for mean't half a century.
This is a country of dicty valleys and serbuded glens, which nature has funct in with almost inacceadible mountains. It is peopled with which trules of inveterious origin in whom Afghan, Tartar Turkoman, Persian Indian, Arch, and Lewish, intermined. Arib and Jewish intermingh Iby had hved that own lives for centuries with little intercour e even amongst thems lyes and as Bir Valentine Chirol truly said the only bond that ever could unite them in common action was the bond of Islam. It is impossible to was the bond of Islam. It is impossible to understand the Frontier problem unie row, fails are steadily borne in mind. The string set tentiment amongst those strange pupile is the desire to be left alson. They value their independence much more than the lives. The other factor is that the country does not affice even in good years to maintain the population. They must find the means of suc sistence outsile either in trade by service in the Indian Army or in the krontier Militia. or else in the outlet which bill men all the world over have utilised from time immenorial the ralling of the wealther and more peaceful population of the Pluns

Frontier Policy

The policy of the Government of India to warl the Indiapendent furnitors has bled and flowed in a remarkable degree It he fluctuated between the Forward School which would occupy the further up to the confine-of Africanistan and the school of Mastelly macrivity which would leave the tribe-men entirely to their own resurces pumshing Briand both the political last the menace of a Russian invasion and that coloured our from tier policy until the Anglo Russian Agreement The induced what was called But and Retire tactics in the half century which ended in 1897 there were mark a sort of punitive cx publicans each one of which left ichind a legacy of dutrust and which brought no per moment improvement in its train. The fruit publions each one of which left ichind a ligacy of district and which brught no per manient improvement in its train. The fruit of the suspicion thus engendered was seen in 1897. Hen the whole Frontier from the Seen in 1897 files the whole Frontier from the Seen in 1897 files the whole Frontier from the Seen in 1897 files the whole Frontier from the Seen in 1897 files and the magnitude of the fill that the manifest of the suspicion which was ablar. The extent of this range and the magnitude of the fill files are seen in 1897 files the seen which were taken to meet the completed a consideration of the whole position but that as secondary them. The broad outlines of the new polley were laid down in a despatch from the Seen of the border was directly distinguishable the Government the limitation of your interface of the border was directly distinguishable to the Government the limitation of your interface of the seen of the border was directly distinguishable for the following the continued recalcitrance of the Zakka lahel specific form of administrative control over tribal cocks moving swiftly down the Chura Yang.

There yet remains a small part of British territory. It fail to Lord Curron to give India where the King s writ does not run effect to this policy. The main foundations Under what is called the Durand Agreement of his action were to exercise over the trabes with the Amer of Afghanistan the boundary the political influence requisit to secure our mperial interests to pay them subsidies for the performance of specific duties but to res pect their tribal independence and leave them

As a first step Lord Curson took the control of the tribes under the direct supervision of the Government of India Up supervision of the Government of India Up to this print they had been in charge of the Government of the Punjab a province whose ligad is busied with many other concerns Lord (urzon created in 1901 the North West Frontier Province and placed it in charge of a Chief Commissioner with an intimate irontier experience directly subordinate to the Government of India This was a revival of a scheme prepared by Lord Lytton in 1877 and often considered afterwards but which had slipped for lack of driving power heat lord Curzon withdrew the regular troops so far as possible from the advanced posts and far as possible from the advanced posts and placed these fortalises in charge of tribal levies officered by a handful of British officers most successful of these is the Khyber Rifles with have steadfastly kept the peace of that in time Pass. At the same time the regular troops were cantoned in places whence they toold quickly move to any danger point and the bases were conjected with the Indian Railway system. In pursuance of this policy implier railways were run out to Dargai and a narrow gauge line since converted to the broad gauge was constructed from Kushal harb to hobat at the entrance of the Kohat Pas and to I hal at the mouth of the Kurram Pas and to I hal at the mouth of the Kurram Valle, These railways are being completed by lines to I ink and Bannu By this means the sinking power of the regular force was greatly increased. Nor was the policy of economic development neglected the railways gave a powerful summins to trade and the lower Swat Canal converted frac hous tribesmen into successful agriculturists thus policy of economic development is re-curring a great development through the com-pletion of the Upper Swat Land (q v Irra gation) Now it is completed there are other works awaiting attention

#### Greater Peace

and Colonal Roos-Keppel taking the Khyber of the Imperial Legislative Council in October Rifles down the Basar Valley inflicted such said — On the Frontier I regret to say that condign punishment on them that they were giad to accept terms of peace negotiated by large bodies of ignorant and fandical tribes men the main Airdi tribe. A month later action from tribal territory but in each otac they was necessary against the Mohmands In have been successfully driven back with const this case the rebellious tribesmen were actively derable losses and at the color of a few lives supported by Afghan levies, assembled and fitted out in Afghan territory at Lalpura. Two brigades entered their country and deleated them. There was a diversion when lashkars been. There was a diversion when isahkars numbering nearly twenty thousand moved up from Afghanistan and threatened the Bri tiah post of Landi Kotal in the Khyber They too were driven back into Afghan territory and the trouble was at an end. The Amir who had been strangely quiescent asserted his authority and the irregular warfare waged from Afghan territory ceased

#### Policy Justified.

These expeditions have been selted upon by critics to condemn the present policy They justify it. Thanks to the confidence engen dered by ten years of non-aggression the dis-turbed area was localised the Khyber was kept open the Afridis lent their aid in conclud ng peace For these reasons, when the Government of India proposed the occupation of further strategiest points in order to control the Zakka Khela, the Secretary of State wisely imposed his embargo. The strength of the position was still further demonstrated when In 1910 the tribespren suffered heavy loases in consequence of measures to suppress the arms traffic g c. Gun running). The frontier is always in a state of suppressed ferment No one knows what will happen to-morrow. But the tribernen feeling confident in the No one knows what will happen would be the tribermen feeling confident in the knowledge that no attack on their independence is consemplated and growing roter in consequence of the development of trade and agriculture are more easily handled with the removal of the Russian menace or rather its transference to Persia the importance of the North-West Frontier has tended to subtle North-West Frontier Province and Bain the North-West Frontier has tended to subtle North-West Frontier tribes and the frontier tribes the term Pathan is not defined to denote status and is generally used of the Routh's and the Frontier tribes and their connections and their c necessity for a reversion to the forward policy and for the occupation of the Independent Territory right up to the Durand line But they are not regarded seriously The tribes-men are so saturated with rides and ammuni men are so saturated with mes and ammuni-tion as the result of importations from the Persian Gulf that the task would be long and coatly When it was achieved the frontier problem would only have shifted Instead of a frontier against the Independent tribermen India would have a frontier against Afghanis tan and the problem would still be present only in an aggrevated form.

The history of the Independent Territory during the year was one of unrest though this was local and sporadic and did not take the form of a concerted disturbance such as that which embarramed the Government of India

The relations of Afghanistan with the Indian in three-quarters of a century the attitude of Empire are dominated by one main considers direct Britam toward successive Amirs has been directly a first Britam toward successive Amirs has been directly a first Britam toward successive Amirs has been directly a first and the first considerations to prevent Afghanistan from coming under see of secondary importance. For nearly the influence of Bussis that the first Afghan

derable losses and at the cost of a few lives among t our own soldiers I slways regret such useless waste of the precious life of our soliders at the hands of these hordes of bar barous tribesmen Nothing could have been more staunch and loval than the attitude of our own tribesmen living within our borders. The Amir of Afghanistan has from the begin ning of the war observed an attitude of strict neutrality and I have every reason to believe that it will be rigidly maintained.

The more important of these raids are nar rated in The Chronicle of the Year (q v )—On August 17th hostile bodies of Bunerwals occu pied the low hills at the mouth of the Ambeyla Pass and in the atternoon four thousand tribes men advanced towards the vicinity of the British Camp An artillery and infantry attack was made upon them and they were completely routed and driven back to the hills On August 26 28 and 29th large bodies of Swatis were beaten off with heavy losses on the Buner border and the tribeamen were driven out of Kak Fort which was destroyed On September 5 a gathering of Mohmand Lashkars numbering about ten thousand men was reported in the lower Gandab Valley They were attacked near Hafiz Kor and driven off with heavy 10see

Northern Waziristan The latter have two main sections the Utmanzal and the Ahmadzal and there again are subdivided into numerous clans. In the Kurram the Turis (who unlike their neighbours are Shisha) form the strongest element In the Khyher region the main tribes are the Orakzal and the Afridis both found in the mountainous country south of the Khyber Pass commonly called Tirab both are extensively subdivided the strongest sections of the Orakzai being the Lashkarzai and the Masozai and of the Afridis the Malik Bin Khel, MASONS AND OF the AUTOIS THE MAIN DIM ADEA the Zakka Khel the Kambar Khel and the Kuki Khel Between the Khyber Pass and the Kabul River are the Mulazorie and united south the Mohmands and the Utman Khel Beyond these are the Yusufasi, who form the in 1887. The Vicerov in summarising the position in the speach which closed the ses ion is inhabited by races whose origin is obscure,

#### AFGHANISTAN

War of 1888 was fought—the most melancholy this line was suddenly stopped and is now episode in Indian frontier history. It was betaute in the air. In this was the two Powers cause a Russian envoy was received at Kabul prepared for the great conflict which was turned be lought on the Kandahar-Ghami Kabul inc. episode in Indian nontier history. It was be-cause a Russian envoy was received at Kabul whilst the British representative was turned back at All Masjid that the Aighan War of 1878 was waged. Since then the whole end of British policy toward Afghanistan has been to build up a strong independent State friendly to Britain which would act as a buffer against Russia and so to order our frontier policy that we should be in a position to move large forces no. if necessary to support the Afghans in up, if necessary resisting aggression

#### Gates to India

A knowledge of the traps frontier geography of India brought home to her administrators the conviction that there were only two main gates to India—through Afghaulten the historic route to India along which successive invasions have poured and by way of Sciatan it has been the purpose of British policy to close them and of Russia to endeavour to keep close them and of Russia to endosvour to according them at any rate half open. To this end having pushed her trans-Persian railway to Samar kand Russia thrust a military line from Mert to the Kushklinsky Poet where railway material to the Kushklinaky Poet where railway material is collected for its immediate prolongation to Herat. Later she connected the trans Siberian railway with the trans Caucasian system, by the Orenburg Tashkent line thus bringing tentral Asia into direct touch with her huropean magazines she was until recently credited with the determination to build the Termes railway which would menace north east Afghanistan just as the Kushk linaky line does north west Afghanistan Northas Great Britain been idle A great military has Great Britain been idle A great military station has been created at Quetta This is station has been created at Quetta. This is connected with the Indian railway system by lines of railway which climb to the Quetta Plateau by the Bohan Pass and through the Chapper Rift, lines which rank amongst the most picturaque and daring in the world. From Quetta the line has been carried by the Khojak tunnet through the Khwaja Amran Range until it leads out to the Afghan Border at New Chaman where it opens on the route to Kandahar The material is stocked at New Channan which would chable the line to be carried to kandahar in sixty dave in view of the same menace the whole of Baluchistan has been brought under British control. Quetta is now one of the great strategical positions of the world and nothing has been left undone which modern military science can achieve to add to its natural strength. In the opinion of many military authorities it firmly closes the western gate to India, either by way of Kandahar or the direct route through Sciatan Further east the Indian railway system has been carried to Jamrud at the entrance to the knyber Pass A first class military road sometimes double, sometimes treble threads the Pass to our advanced year at Landi Kotal and them descends until it meets the Alghan frontier at Tor Khum. Later a commencerment was made with the Loi Shifman Rail
way which, starting from Peshawar was designed to penetrate the Hulisgori country and
provide an alternative advance to the Khyber
for the movement of British troops for the defor al provides an alternative advance to the Khyber
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for the movement of British troops for the deformal discussion that the system which Abdur
reparamen Khan had est up would perish with
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#### Relations with India.

Butween the advanced posts on either side stands the Kingdom of Afghanistan. The end of British policy has been to make it strong and friendly. In the first pertioular it has largely succeeded. When the late Abdurrahaman was invited to ascend the throne as the only means of escape from the tangle of 1879 none realised his great qualities Pro of 1619 none reason the great quantum ricously the Amir of Afghanistan had been the chief of a confederacy of class Abdurrahaman made himself master in his own kingdom By means into which it is not well closely to enter he beat down opposition until none dared lift a hand against him. Alded by a British suba hand against him. Alded by a British sub-side of twelve lakin of rupees a year increased to eighteen by the Durand Agreement of 1893, the established a strong standing army and so-tup argenals under foreign supervision to fur-nish it with arms and ammunition. Step by step his position was regularised. The Angio-Bussian Boundary Commission—which nearly precipitated war over the Penjdeh episode in 1885—determined the northern boundaries. The Pamilus Agreement delimited the borders amid those snowy beights. The Durand Agreement settled the border on the British side Finally the McMahon award closed the old feud with Persia over the distribution of the maters of the Helmand in Seistan. It was estimated by competent authorities that about the time of Abdurrahaman's death Afghanistan was in a position to place in the field, in the event of war, one hundred thousand well armed regular and irregular troops, to-gether with two hundred thousand tribel levies and to leave fifty thousand regulars and irre gulars and a hundred thousand levies to melatain order in Labul and the provinces But if Alghanistan were made strong it was not made friendly Abdurrahaman distrusted Dritish policy up to the day of his death. All that can be said is that be distrusted Russia and it the occasion had arisen for plun to make a choice he would have opposed a Russian ad tance with all the force at his disposal. He closed his country absolutely against all foreigners except those who were necessary for the supervision of his areenals and factories The supervision of his arrenals and metories. He refused to accept a British Resident, on the ground that he could not protect him, and British affairs have been entrusted to an Indian agent who is in a most equivocal position At the same time he repeatedly pressed for the right to pass by the Government of India and to establish his own representative at the Court of St James.

#### Position To-day

It used to be one of the commonplaces of Indian discussion that the system which Abdur

cally retained his seat on the throne. He constituted in 1905 the Dane Treaty, by which he accepted the same obligations on the same terms as his tather. He visited India in 1907 and apparently both enjoyed and profited by his experiences. Since then the purials which attreens Alphanistan has been lifted so little that there is no definite knowledge of what has passed behind it. It would however be impossible to describe the attitude of the Amir as friendly. It is said that the homours he as friendly It is said that the honours be stowed upon him in India, especially the con-isrring of a Royal Title increased the mega komania from which all Athana suffer He bitterly resented the conclusion of the Anglo Russian Agreement without any prior reference Russian Agreement without any prior reference to himself, and has never given his adherion to it over His attitude toward the Frontier disturbances of 1907-08 was peculiar There is no doubt that the Zakka Khel rising was stirred by refugees in Kabul Thousands of Afghana, equipped in Afghan terniory participated in the Mohmand campaign The great lashkar which attacked Landi Kotal was entirely compressed of Afghana The most great samual which attacked Land Rotal was entirely composed of Afghans. The most favourable interpretation placed on his con-dated is that during his absence in India, followed by a long tour in the northern provinces the situation in Afghanistan had got out of band, and the amir let it take its course until band, and the amir let it take its course until
afters occurred, when he stepped in and as
sumed control of affairs. For the rest, the
position of the ruler of Afghanistan is not an
envisible one. His brother Vasrullah Khan
a noted Angiophobe and reactionary is the
Commander in-Chief of the Army and the
head of the orthodox party. The administration of the country is extremely lax. Ex

restonces in Khost indicate, that the strength periences in Khost indicate that the strength of the central power has been exaggerated In 1912, the Mangals of Khost revolted against an unpopular governor and besieged him in his can stronghold. There was much talk of the prompt and severe punishment of the re bein, but the troops never reached the valley and the rebels were bought off by the dis-missal of the unpopular governor

### Angle-Russian Agreement.

Insamech as Alghan politics, n their relation to Great Britain, were determined by the Buselan manace, they have recorded with the conclusion of the Angio-Russian Agreement. The part of the Angio-Bussian Convention The part of the Angeo-massas convenience relating to Afghanistan is as follows I. The British Government disclaims any intention of changing the political position in Afghanistan and undertakes neither to take measures in Afghanistan nor to encourage Afghanistan to take measures threatening Russia. The Russian Government recognises Afghanistan as outside the Russian sphere of Indisone and agrees to act in all political relations with Afghanistan through the British Government and it also undertakes to send no agents to Afghanistan II Great Britain adheres to the provisions of the treaty of Kabul of March 21 1905 and undertakes not to annex or to occupy contrary to the said treaty, any part of Afghamstan or to intervene in the internal of Aghanistan or to intervene in the intermal administration. The reservation is made that the the Amir shall fulfil the engagements oon tracted by him in the aforementioned treaty III Russian and Afghan officials especially appointed for that purpose on the frontier provinces may enter into direct relations in order to settle local questions of a non-political character IV Russia and Greek British declare that they proposed the

a non political character 1v tunals and freat Britain declare that they recognise the principle of equality of treatment for commerce and agree that all facilities acquired already or in the future for British and Anglo-Indian commerce and merchants shall be equally applied to Bussian Commerce and merchants.

V These arrangements are not to come into force until Great Britain has notified to Russia the Amir's assent to them.

The Amir has never given his adhesion to the Agreement but Great Britain and Russia have agreed to regard the Agreement as if the

Amir, had accepted it On the outbreak of the war His Majesty the Amir declared his complete neutrality and this policy was pursued during the year with complete and unswerving talthfulness

#### TIBET

Recent British policy in Tibet is really another ( base in the long-drawn-out duel between Great phase in 186 long-unwar-out out and Asia. The factain and Russia in Control Asia. The carllest efforts to establish communication with that country were not, of course impired by this apprehension. When in 1774 Warren Hastings despatched Bogie on a mission to the Tack Larms of Shugates,—the spiritual equal, if not superior of the Daial Lams of Linse-bis desire was to establish facilities for trade to open up friendly relations with a Power which was giving us trouble on the frontier and gradually to pave the way to a good un descinating between the two countries. After Warren Hasting's departure from India the

Tibet was recognised, and to whose views until the war with Japan British statesmen onici the war with pay excessive deference. But the position on the Tibetan frontier continued to be most unsatisfactor. The Tibetans were aggressive and obstructive and with a view to putting an end to an intolerable situa yiew to putting an end to an intokrable situa-tion s. Convention was negotiated between Great Britain and China in 1890. This laid down the boundary between Bikkim and Tibet, it admitted a Britain protectorate over Sikinin, and paved the way for arrangements for the conduct of trade across the Sikkim Tibet-frontier. These supplementary arrangements provided for the opening of a trade mart at vatung on the Tibetan side of the frontier to which British subjects should have the right of free access and where there should be no Warren Hasting's departure from India the provided for the opening of a trade mark at subject slept, and the last Englishmen to visit the Younghushend Expedition to which British subjects should have the right of free access and where there should be no fine Bright Civil Service, a further attempt was used to get into touch with the Thotson, but it was shearinged in deference to the opposite it and despite their establishment of the Suspendit of the Suspendit of the Access and where there should be no fine Bright Civil Service, a further attempt useless in practice because the Tibetans remained to get into touch with the Thotson, the Chinese, whose suspendity over smalle to secure respect for it.

#### Russian Intervention.

This was the position when in 1899 Lord Carron Vicercy of India, endeavoured to get into direct touch with the Tibetan authorities Three letters which he addressed to the Dalai Lams were returned unopened at a time when the Dalai Lama was in direct intercourse with the Tsar of Rissis. His emissary was a Siberian Dorjieff, who had established a remarkable ascendancy in the counsels of the pairi Lama After a few years reddence at Lhass Dorlleff went to Russia on a confidential mission in 1899 At the end of 1900 he re turned to Russia at the head of a Tibetan mission of which the head was officially described in Russia as the senior Tsanite Khomba attached to the Dalai Lama of Tibet. This mission arrived at Odessa in October 1900 and was received in audience by the Tear at Livadia. Dorjieff returned to Liesa to report progress, and in 1901 was at St Petersburg with a Tibetan mission where as bearers of an autograph letter from the Delai Iama they were received by the Tsar at Peterholf They were escorted home through Central Asia by were escorted figure through central and by a Russian force to which several intelligence Officers were stacked. At the time it was runoured that Dorjieff had, on behalf of the Dalai Lama, concluded a treaty with Russia which virtually placed Tibet under the protectorate of Russia. This rumour was after wards officially contradicted by the Russian Government.

#### The Expedition of 1904.

In view of these conditions the Government of India treating the idea of Chinese sure rainty over Tibet as a constitutional flotion proposed in 1905 to despatch a mission with proposed in 1903 to despatch a mission with son armed escort to Linus to discuss the out standing questions with the Thotan authorities on the spot. To this the Home Government could not assent, but agreed in conjunction with the Chinese Government, to a joint meeting at Khamba Jong on the Thotas side of the frontier Sir Francis Younghusband was the British representative but after months of delay it was assertanced that the Thotas was the British representative but after months of delay it was ascertained that the Tibetam had no intention of committing themselves. It was therefore agreed that the mission with a strong ecoort, should move to Gyantae On the way the Tibetans developed marked hostility and there was fighting at Tuna, and several sharp encounters in and around Gyantae. It was therefore decided that the mission should advence to Flass and on August 244 1004 was therefore decided that the mission should advance to Lhasa, and on August 3rd 1904 Lhasa was reached. There Sir Francis Young husband negotiated a convention by which the Tibetans agreed to respect the Chinese Convention of 1890 to open trade marta at Gyantse Garck and Yatung to pay an indemnity of £500 000 (seventy five takis of rupees) the British to remain in occupation of the Chumbi Valley mith this indemnity was paid off at the rate of a lakh of rupees a year In a separate instrument the Tibetana agreed that the British Trade Agent at Gyantse should have the right to proceed to Linear to these sommercial questions if necessary discuss commercial questions if necessary

#### Home Government Intervence.

the full terms of this agreement. The indean the full terms of this agreement. The mosts mity was reduced from severty five laking to be paid off in three years and the occupation of the Chumbi-Valley was reduced to that period. The right to despatch the British Trade Agent to Liasa was withdrawn Two years later (June 1606) a Convention was concluded between Great Britain and China regulating the position in Tibet Under this Convention Great Britain agreed neither to annex Thetan territory nor to interfere in the internal administration of Thet China undertook not to permit any other foreign State to interfere with the terri tory or internal administration of Tibet. Great tory or internal administration of libet. Great Britain was empowered to lay down telegraph lines to connect the trade stations with India, and it was provided that the provisions of the Convention of 1890 and the Trade Regulations of 1893 remained in force. The Chinese Government paid the indemnity in three years and the Chinmbi Valley was executed. The only direct result of the Mission was the open country to the trade court and the extention. ing of the three trade marts and the establish-ment of a British Trade Agent at Gyantse

#### The Anglo-Russian Agreement.

The reason underlying the action of the British Government in modifying, in such material particulars, the Convention of Liham was apparent later The Anglo-Russian Agree-ment was in process of negotiation and under that Agreement Great Britain was pledging herself not to annex any portion of Tibetan torritory nor to send a representative to Linea. Valley would have been indistinguishable from annexation. The portions of the Anglo-Russian Agreement which relate to Tibet are as follows

Arricle I -The two High Contracting Parties angue 1—100 we man contracting restreet engage to respect the territorial integrity of Thet and to abstain from all interference in its internal administration.

Article II -In accordance with the admitted principle of the suseramty of China over Tibet Great Britain and Russis engage not to enter into negotiations with Tibet, except through the intermediary of the Churese Government.
This engagement does not exclude the direct relations between the British Commercial Agents and the Tibetan authorities provided for in Article V of the Convention between Great Britain and Tibet of the 7th September 1904 and confirmed by the Convention between Great Britain and China of the 27th April 1906 nor does it modify the engagements entered into by Great Britain and China in Article I of the said Convention of 1906

It is clearly understood that Buddhists, subjects of Great Britain or of Russia, may enter into direct relations on strictly religious matters with the Dalai Laune, and the other representatives of Buddhism in Tibet, the Governments of Great Britain and Russia engage, as far as they are concerned, not to allow those relations to intringe the stipulations of the research area concerned. tions of the present arrangement.

For reasons which were not apparent at the time, but which have since been made clearer armounts, respectively engage not to seem the Home Government were unable to accept Representatives to Lhasa.

Parties engage neither to seek nor to obtain, whether for themselves or for their subjects any concessions for rallways, reads, telegraphs and mines, or other rights in Tibet.

Article V -The two Governments agree that no part of the revenues of Tibet whether in kind or in cash shall be pledged or assigned to Great Britain or Russia or to any of their

#### Chinese Action.

The sequel to the Anglo-Russian Agreement was dramatic although it ought not to have was dramate authoring it ought not to have been unexpected on the approach of the Younghushand Mission the Dalal Lama fled to Urga the sacred city of the Buddhists in Mongola. He left the internal government of tions of Tibet. In the past this suzerainty having been a constitutional fiction it was having been a constitutional fiction it was inevitable that China should take steps to see that she had the power to make her will res to resume his duties at Linas. Moving by leisured stages he arrived there at Christmas 1909 But it was soon apparent that the ideas of the Dalai Lama and of the Chinese Govern meen had little in common The Dalai Lama expected to resume the temporal and spiritual despots which he had exercised prior  $\alpha$  1904. The Chinese intended to deprive him 1904 The Chinese intended to deprive him as a spiritual pope The Thetans had siready been examperated by the pressure of the Chinese sodilery. The report that a strong Chinese force was moving on thats to alarmed the Dalai Lana that he fied from thats, and by the trony of fate sought a refuge in India. He was chased to the frontier by Chinese troops and took up his abode in Darjeeling whilst Chinese troops overran Tibet

IV -The two High Contracting while discisining any desire to interfere with aggre neither to seek nor to obtain, the internal administration of Tibet, could not be indifferent to disturbances in the peace of a country which was a neighbour, on intimate terms with other neighbouring States on our frontier especially with Nepal, and pressed that an effective Tibetan Government be main tained The attitude of the Chinese Govern ment was that no more troops had been sent to Tibet than were necessary for the preservation to Great Britain or Kussia or to any or area.

Annexed to the Agreement was a re-affirma of order that China had no intention of contium of the declaration for the evacuation of vertice Theta into a province, but that being responsible for the good conduct of Tibet, annual instalments of the indemnity provided that the trade marts had been effectively evided that the trade marts had been effectively ever respected by the Tibetans Finally the opened for three years and that the Tibetans of the compiled in all respects with the terms of such a limpossible person that they had been compelled again to depose him. Here the compelled again to depose him. Here the matter might have rested but for the revolu than in China. That revolution broke out in Secture and one of the first victims was Chao Erh teng Out off from all support from China, surrounded by a hostile and muriated populace the Chinese troops in Tibet were in a hopeless case they surrendered, and sought escape not through China but through sought escape not through China but through Tibet in confusion and one of Sir Francis inda, by way of Darjeeling and Calcutta Younghusbands great difficulties was to find The Dalal Lama returned to Lhasa and in 1918 Tibetan officials who would undertake the in the House of Lords on July 28 Lord Morley responsibility of signing the Treaty how the stated the policy of the British Government suscerainty of China over Tibet had been explicitly reaffirmed I was asserted that all the proposed of the Predict of the Chinase would be held responsible for the foreign risk those of Tibet. The the restriction of the Predict of the Chinase would be held responsible for the foreign risk. Republic saving that Tibet came within the sphere of Chinese internal administration and that Tibet was to be regarded as on an equal footing with other provinces of China that she had the power to make her will respected at Linana. To this end she proceeded to convert Tibet from a vassal state into a province of China. In 1908 Chao Erb-feng, acting Viceroy in the neighbouring province of Sacchusen was appointed Resident in Tibet. He proceeded gradually to establish his author stry marching through eastern Tibet and treating the people with great seventy. Mean treating the people with great seventy. Mean treating the people with great seventy. Mean treating the people with great seventy Mean treating the people with great seventy. Mean treating the people with great seventy Mean treating the people with great seventy. Mean treating the people with great seventy Mean treating the people with great seventy. Mean treating the people with great seventy Mean treating the people with great seventy. Mean treating the people with great seventy Mean treating the people with great seventy. Mean treating the people with great seventy Mean treating the proceeded gradually to establish his author stry, marching the internal administration of the three countries of the constitution of a conference to discuss the relation of the three contrience at the internal administration of the three characters of the constitution of the three characters of the constitutio was met by a very vigorous protest from the British Government the Chinese Government subsequently accepted the principle that China and Mr Long Chen Shatra. Prime Minister to the Dalai Lama, threshed out these issues. Whilst no official pronouncement has been made on the subject it is understood that a Convention was initialled in June which recognised the complete autonomy of Tibet proper with the right of China to maintain a Resident at Lhasa with a suitable guard. A semi autonomus zone was to be constituted in was to be relatively much stronger. But this Convention, it is understood has not been Convention, it is understood has not been ratified by the Chinese Government, owing to the difficulty of defining Outer and Innet

#### Political Importance of Tibet.

The political importance of Tibet in relation to india has of necessity been changed by the Anglo-Russian Agreement So long as that instrument is in force it tends to decline Brit instrument is in some in the decline but the decline of the decline but the de

at Lines, controlling the policy of a great it is corrupt and degraded it might lend itself politico-religious organisation whose infinence can and does make itself appreciably felt all tool of Russian ambitions. Thet as a Russian is the stronghold of Lamastic Buddhism, a debased form of Buddhism largely overgrown with tantic philosophy—Lines is in fact require to be watched, just as every civilised the Rome of Central Asian Buddhism and the country has to watch its frontiers, whatever the proposed of the country has to watch its frontiers, whatever many-storied Po-ta is on the hill to the west of the city is its Vatican whence its influence radiates throughout innumerable lamaseries radiates throughout manuferace amagement or Buddhist monasteries not only into Turkes-tan and Mongolla and Western China, but across the Himalayas into the frontier States of our Indian Empire Corrupt and degraded as it is it is still unquestionably a power and just because

they may be where they march with a powerful neighbour, and most of all in India, where our frontier is fringed with semi independent Native States, over which our authority is conditioned mainly on the hitherto unrivalled prestige of our Imperial power in Asia.

British Trade Agent, Yaluny —D Macdonald.

British Trade Agent, Gyanise.—Vacant

### THE NORTH EASTERN FRONTIER.

The position on the northern frontier has arm of the Indian Empire Beyond Nepal can considered as if the Dritish line were consucred as if the Dritish line were consucred with that of Tibet This is not so Sixxim whose rulers are Mongolian by ex been considered as if the British line were conneem considered as it the littless line were con-tiguous with that of Thet. This is not so the real frontier States are Kashmir hepal Sikkim and Bhutan From Chitral to Gilgit now the northernmost posts of the Indian Government to Assam with the exception of the small wedge between Kashmir and Nepal, where the British district of Kumson is thrust right up to the confines of Tibet, for a distance of nearly afteen hundred miles there is a narrow strip of native territory between British Irdia and the true frontier. The first of these frontier Blates is Kashmir. The characteristics of this State are considered under Native State (qv) it is almost the only important hative State in India with frontier responsibilities and it worthly discharges them through the agency of its efficient Imperial Service troops-four of its efficient Imperial Service troops—four regiments of infantry and two Mountain Bat teries, composed mainly of the Rapput Dogras, who make excellent fighting material One of the most important trade routes with Tibet passes through Kashmir—that through Ladak Then we come to the long narrow strip of Nepal This Gurkins State stands in special relations with the British Government. It is for all with the British Government. It is for all practical purposes independent and the British resident at Khatmandu exercises no influence on readent at Khatmandu exercises no influence on the internal administration. The governing machine in Nepal is also peculiar. The Maharaj Dhiraj who comes from the Sesodia Rajput clan the bluest blood in India takes no part in the administration. All power vests in the Prime Minister who occupies a place equivalent to that of the Mayors of the Palace or the Shoguns of Japan. The present Prime Minister Sir Chardra Shamsher has visited England and has given conspicuous evidence of his attachment to the British Government. Sir Chandra Shamsher has visited England and has given conspicuous evidence of his attachment to the British Government to the Shams and Ename or against Chinese aggression through Tibet The traction between the Chinese and the Nepalese used to be frequent, and in the eighteenth cen tury the Chinese marched an army to the continue of Kuchina Givilization is said to be progressive that the firm rule of the present Prime Minister Repai has been largely free from internal disturbance, and has been raised to a Strong bulwark of India. Nepal is the recruiting ground for the Gurkha Infantry who form such a splendid part of the fighting These States are saill administered by the

traction and Buddhists by religion. In view of Chinese aggressions in Tibet, the Government of India m 1910 strengthened their relations of India in 1910 strengthened their relations with Blutan by increasing their subsidy from fifty thousand to a lakh of rupees a year and taking a guarantee that Blutan would be guided by them in its foreign relations. After wards China had officially notified that Great Britain would protect the rights and interests of these States

Assem and Barms

We then come to the Assam border tribes— the Dafias, the Miris the Abors and the Mishmie Excepting the Abors none of these tribes have recently given trouble. The nurder of Mr Williamson and Dr Gregorson by the Minyung Williamson and Dr Gregorson by the Minyong Abors in 1911 made necessary an expedition to the Dihang valley of the Abor country on the N E frontier A force of 2,500 and about 400 military police was employed from October 1911 to April 1912 in subthing the tribe. After two or three small actions the murderers were two or three mini actions the inviterent were delivered up. The cost of the expedition was Rs 21 60 000 At the same time friendly missions were sent to the Mishmi and Miri countries. Close contact with these forest-chal and leech infested hills has not encouraged any desire to establish more intimate relations with desire to establish more intimate relations with them The area occupied by the Nagasares runs porthwards from Manipur The Nagasares a Tibeto-Burman people, devoted to the prac-tice of head hunding, which is still vigorous-ly prosecuted by the independent tribes. The Chin Hills is a tract of mountainous country to the south of Manipur The occurer of India Bawterss or hereditary objects, subject to the diture. The Southern Shan States are being guidance of Superintendents and Assistant developed by railway connection. The five Superintendents. The Northern Shan Rail Karenni States South of Karenni the Frontier near to be a stage in the construction of a direct railway links with China, but this idea has been put of Surman. The relations between the Indian saide, for it is seen that there can never be a Government and the progressive kingdom of trade which would justify the heavy expensions.

#### \* PERSIAN DEBT TO BRITAIN

A Parliamentary Paper sets standing debt of the Persian the British and Indian Government	Governments, as fo	ient ollov	to VB	administration including	£	<b>A</b> ,	đ
Portion of Anglo-Indian Loan of 1903-4 (repsyable by March, 1926) Anglo-Indian advance of Febru ary 1913		15	d 4 0	£30 000 for such purposes in Fars and £10,000 for the Bu shire Custom House Anglo-Indian advance of May 1013 for gendarmeric purpo- ses in Fars	200 000 100,000		0
angle-Indian advance of Ang 1912, after defeat of gendar merje in Fars	25,000	0	0		E754,281	_	<u>-</u> -
Angle-Indian advance of Nov 1912, for use of Governor General of Fars	15 000	0	0	The 1903 5 loan bears interest and all other advances bear intent cent	at 5 per erest at	cen 7 g	t., 201

By agreement with Great Britain and Lussia these leans have been placed under a interatorium, in order to assist the Persian Government financially

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## Railways to India.

The prospect of linking Hurope and Asia by a Risek Sea basin. When it was abandoned, a fullway running eastwards through Asia a Risec-Turkish agreement was passed, reMinor has fascinated men's minds for general serving to Russia the sole right to construct tons. The plans suggested have, owing to railways in the northern part of Asia Minor than British connection with India, always and Bussia has since then prepared a number lain in the direction of interacting India.

Rece than 40 years ago a Select Committee Samsun, on the Black Sea. Bansia has also of the House of Commons sat for two years to prepared her Caucasian railways for possible strengths in the same areas matter. consider the question of a Euphrates Valley rallway The Shah of Persia applied to the British Foreign Office for the investment of British capital in Persian rallway construction britain outside in Persian rainway consciously many years before the end of the unetcenth century. A proposal was put forward in 1895 for a line of 1 600 miles from Cairo and Port Said to Koweis at the head of the Persian Gulf. While these projects were in the air German enterprise stepped in and made a small begin ning by constructing the Anatolian railway system. Its lines start from Scutari, on the southern shore of the Bosphorus, opposite Constantinople, and serve the extreme western end of Asia Minor And upon this foundation was based the Turkish concession to Germans to build the Baghdad Rallway

Meanwhile Russia was pushing her rallways from various directions into the Central Asian territory running along the northern frontiers of Persis and Afghanistan to the borders of or rerus and Annanistan to the borders of Chinese Turkestan. The advance of the Hus-sian ratheads was regarded with extreme suspicion in England as part of a scheme of advanture agalout India, and as the Russian lines crept southwards British Indian rath ways were thrust forward to the Indian north west frontier As the two systems approached one another enthusiasts adumbated plans for linking them together M de Lesseya, the creator of the Sucz Canal, made a journey to Bombay to lay one before the Indian Gov enment. He was proposing to start home-wards through Afghanktan and Central Asia so that he might examine a route that way and wie Orenburg to Moscow when the Ankhan wars broke out and ended his dream.

The construction of a Trans-Persian rallway connecting India, across Persia, with the Russian lines between the Black See and the Caspian See has come to the forefront since the con ces me come to the myerror since the con-clusion of the Anglo-Russian agreement re-garding Persia and simultaneously with this and the advance of the Baghdad railway old projects for British lines running inland into Persia from the Persian Guif have been quick ened.

The actual position in regard to these va-rious undertakings up to the outbreak of the European war and so far as can be ascertained since then, is as follows -

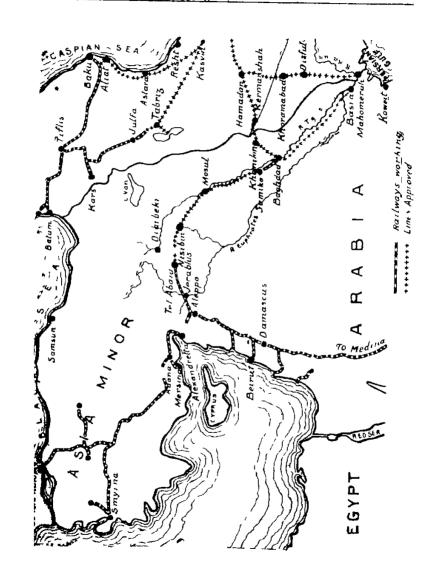
The German group holding the Anatolian railway concession was granted, in 1902, a further concession for extending that system from Konia, then its southern terminus, through termina, then me southern termina, through ever the deserts of the Barkan Alites might be, the Tairns range to the entreme cantern Med in the Baghdai railway and Turkey's ability to terment seaboard, and by way of Maibin, by the guarantee upon it were the one fixed by a more was substituted for a line projected by a more important negotiations took place between northerly rotte through the pass of Diarbetr Germany and Frace, in 1918, to regulate their Russia strongly objected to that rotte, on the respective financial positions in repart to the ground that it would bring the line into the railway so as to avoid future conflict of poli-

railways in the northern part of Asia Minor and Russis has aloos then prepared a number of projects for that region branching out from Samsun, on the Black Sea. Russis has also prepared her Cancastan railways for possible extensions in the same region, pushing her lines towards Van and making an agreement with Pewia, in February 1913 for a line to Lake Urumia.

The Antallem and prepared to the Asia Charletin and prepared to the Commission of the Commission o

The Anatolian rallway company were appa rently unable to handle their new concession and Initiated fresh negotiations, which resulted in the Raghdad Railway convention of March, 1903 This caused much discussion in England, owing This caused much discussion in England, ewing to the apparent intention of the Germans to encrosed on the Persian Gulf. Attempts were made by the German group to secure-the parterpation of France and Britain in the undertaking They were successful in France, the Imperial Ottoman Bank group agreeing to take 30 per cent of the finance, without, however the countenance of the Franch Government. But in England through Mr. Balt. however the commensures of the French Government. But in Rapland, though Mr Balfours Government was favourable strong objection was taken to the constitution of the Board of Directors, which established German control in perpetuity. It was regarded as a German political move and participation was rejected.

The financial terms, with a Turkish kilo-metric guarantee, were highly favourable to metric guarantee, were highly favourable to struction of the first section which lies entirely in the plains of Konia, is estimated to have been £625 000 and the company retained a profit of at least 12 millions sterling on this part of their enterprise. In the second section the Taurus range is being encountered and construction is more difficult and more construction is also difficult and more control for railway must for a long time be a heavy burden on Turkish finance. The country through which it peaces from the Mediterranean reaboard to the Tigra valley steatermean seasourd to the fight valley above Baghdad holds out little or no prespect of commercial advantage, and the financial system adopted offers no inducement to the system adopted offers no indicement to the concessionaires to work for increasing earnings. Thus the Baghdad railway company soliet the working of the line to the Anatolian Railway Company at a rate of £148 per kilometre, as against £180 per kilometre, as against £180 per kilometre guaranteed by the Turkish Government. The weight of the Turkish obligations in connection with the railway had an important effect upon the discussions, in Paris in the summer of 1918, of the international committee for the exami nation of questions relating to the Ottoman slett. The committee was appointed in re-ference to the financial settlement between Turkey and the Balkan States after the war and it became evident that for some Powers, what-ever the deserts of the Balkan Allies might be.



The Baghdad Raffway was during 1913 advanced southward from Konia 182 miles to Karapunar on the northern slope of the Tanrus. On the southern side of the montains, the Mersins-Adana line had been in corporated and 16 miles of track constructed, from Adans to Dorak among the southern foothills of the Taurus Work then proceeded tolink up Karapunar and Dorak. The distance between them through the mountains is 56 The linestone mountain gorges involve much tunnel work and it was estimated that the

work would occupy three years

work would occupy three years Rastward from Adana construction ad vanced throughout 1913 towards the head of the French Syrian lines at Aleppo and work was begun on a short branch line connecting the new plece with Alexandretts The branch was opened to traffic early in 1914 The Germans submitted plans to the Turkish Government in 1913 for the construction of a new port ment in 1913 for the construction of a new port at Alexandretta in accordance with the terms of a amplicmentary concession sanctioning the branch line These included the construction of three docks a feature of considerable interest Work was begun early in 1913 on a line running north west from Aleppo to meet that coming from Adana It has to pleace the Amanus range of hills by a tunnel three miles long which it was estimated would take three years to construct

At the time of writing information as to what has been done since the outbrak of war is incomplete but so far from the war having stopped work it has for military considerations led to its being pushed forward with increased Work has been most active in the western mountainous sections and one of the biggest tunnels of the whole line the Bilemedik tunnel, 1 826 metres long is said to have been piererd and to be approaching completionby this time it is probably completed

Progress has meanwhile been made with im portant stages of the line running north-east from Aleppo en route to Baghdad This line was in 1913 open to Jerablus, on the Euphrates and the construction of a large bridge at that spot was immediately undertaken, while motor boats and a steamer or two were taken in pieces boats and a steamer of two were taken in pieces
to Jerablus and launched for river traffic to
Baghdad The journey from Beirut to Bagh
dad was thus reduced to 8½ days, counting
two days from Beirut to Jerablus by train
six days by steamer to Feluja and finally
10 hours carriage drive to Baghdad The river traffic is likely to be interrupted in the river traffic is likely to be interrupted in the dry season. The Jerablus bridge having been completed, the railway was completed and opened on July lat, 1914 as far as Tel Abaid, 60 miles east of Jerablus. Earthwork had siready been carried much farther It was reported last summer that 40 miles of time eastward from Tel Abaid had been opened Considerable further progress must now have been made. been made

Construction was meanwhile carried on on the Baghdad Mosul section, material for the latter being taken up-river from Basra to Baghdad by special barges and tugs. The line from A trans-Persian Line.

Baghdad to Sunika, about 40 miles north of Caucassan system with the Indian Railways

tical interests in the regions of the Baghdad Baghdad was handed over for traffic on June lines and the French railway system in Byria. 2nd, 1914 and it was reported last summer that another 80 miles on this portion of the railway had been completed Reckoning all the sections completed and open for traffic, a distance of nearly 600 miles had been finished by the summer of 1914 out of a total of 1 020 miles reckoning from Konia to Bagedad. An official Deutschie Bank report lasued in March 1914 stated that the Balkan wars had caused the German undertaking to concentrate ita Turkish enterprises more than ever upon the To this end the Germans Asiatic territories handed over their Balkan railway interests to an Austro Hungarian financial group " on favourable terms and thus greatly facilitated their special direction of effort in Asia Minor and Mesopo tamia. Great efforts were reported to have been made to hasten the construction of the line leading eastward to Baghdad during the past vear

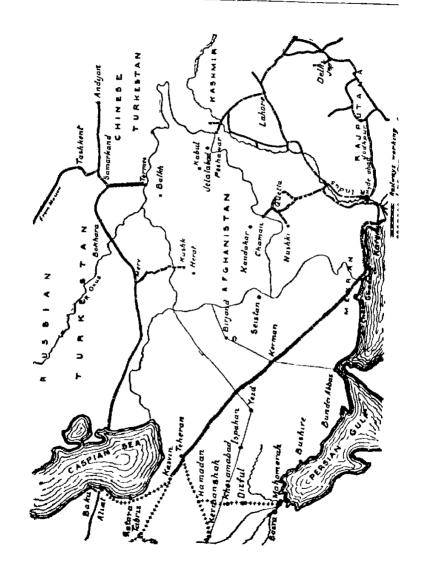
> An agreement was reached in 1914 between Britain and Turkey with the acquiescence of thermany regarding the approach to the Persian four its central provision was that the reliway should not proceed beyond Basra without any question of her participation in the Bagiliad Basra section of the line. It was a considerable to the control of the line. It was agreed that there should be no differential rates on the railway and in regard to the latter Britain obtained the right of appointing two directors of the railway not for purposes of control but to guard British interests Britain recognised Turkish susersinty over Koweit and Turkey recognised the independence of the Sheikh of Koweit and the continuance union paired of the existing relationship between him and the British Government The Angio-Turkish Agreement has not yet been published but Sir Edward Grey announced in 1914 that

> wo get recognition by Turkey of the status quo in the Persian Gulf the status quo as we the have regarded it for years past (House of Commons June 29 1914) A statement issued in B. din on June 15 1914 stated The Anglo German Agreement regarding the Baghdad Railway and Mesopotamia has neen initialled in London by Sir Edward Grey and Prince Lichnowsky, the German Ambassador A complete understanding has been reached on all questions at issue The agreement will not come into force until after the conclu sion of the negotiations with Turkey as on some material points the assent of the Porte will be necessary. The contents of the Force mention, therefore not be divulged at present."
>
> The war has altered the whole situation.

> Germany also proposed to build a line from Germany also proposed to build a line from Baghdad to Khanlkin where a pase through the mountains leads into the West Persan highlands Russis had agreed to build a railway from Khanlkin wis Kermanshah and Hamadan to Teheran construction to begin within two years of the completion of the extension from Baghdad to Khanlkin and then to be completed by wear to be completed in 4 years.

#### Trans-Persian Line.

v.



termini of a trans Persian line and the follow ing details carry us up to the period of the war The Russian railway system reaches Julia on the Russo Persian border between the Black Scs and the Campian Sca A line connecting with this runs from Batum, on the east coast of the Black Sea to Baku on the west coast of the Camban Incidentally article 59 of the Treaty of Berlin provides that Batum shall he a free port essentially commercial The Persian Foreign Minister on February 6 1918 The signed a concession to the Russian Julia-Tabriz and Enzell Teheran Road Companies giving and Ensell reneral roots Companies giving the right to construct a railway from Julia to Tabris (83 miles) with an extension to Lake Urumish and a preferential right to build railway from Tabris to Kasvin Julia and Tabris were at that time equipped with a metalled road on which a motor omnibus service was maintained. The road is the proper ty of the concessionaire company so that sections of it could conveniently be utilised for railway construction, the work of construc-ting the time being thus expedited. The railway was to be begun within two years railway was to be begin within two years of the granting of the concession and completed within six years and a time limit of eight years is fixed for the extension of the tance of 250 miles The concession of the fance of 250 miles The concession runs for a period of seventy five years. Option is reserved to the Persian Government to purchase the Julia Tabria line after a lapse of 35 years. Early in 1014 it was announced in Theran that the line had been built from Julia to Darable some 13 miles south of Julia and news from Russia thus indicated that it would be completed to Tabriz in the spring of 1916 The Russian Government Department of Rail-The Russian covernment Department of Railways in June 1913 approved a concession to a Russian Syndkate for the construction of the line from a point on the railway close to Baku to Astera a point on the Caspian south western seaboard, where the Bussian and Persian terri tories meet. More than one possible starting point for the trans Persian Railway is therefore in course of preparation

On the Indian side the rallway system is fully developed up to Baltuchistan close to the Persaan frontier A broad gauge live running through Quetta to Kushki was constructed with the intention of its development for the benefit of trade which already runs by caravan solong the "Nushki trade route to the Per-sian province of Scietan The Russian Gov ernment avoured linking up the trans-Per stan railway with the indian railways at this point. But the suspicious saw a strategical reason for this preference. The Indian Government found itself unable to approve convenient sound issue unable to approve the connection. They insist that the line shall run either from Yesu or Kerman to the sea board. This condition is absolute. Theremains, then, a connection with the Indian North-Western Rallway at or near Karachi.

The necessary financial arrangements for the preliminary work in connection with the proposal, which came from Russia, to connect the railways with Russia and Indian railways with Russian and Indian railway systems by

drst assumed proportions of practical import-tance in the late winter of 1911 Both the that the Russian Committee were already in Russian and the Indian msiways are fully possession of a nearly complete survey of more developed up to the points which would be the possession of a nearly complete survey of more than 300 miles from Asters to Teheran and the length of the line from there to Gwadur on the Perso-Baluch Frontier is some 1,200 miles Soon after this announcement Mr Johns was appointed by the Government of Indla to survey a railway route between Karachi and Gwadur and found a good line with a general gradient of 1 in 250 the steepest being 1 in 90 Twelve of the principal Russian Banks were I werve of the principal Russian canase were interested in the project and the desired amount of English and French capital was guaranteed, one English assisting house having even offered to furnish the whole of the English quote the Percent concerns are the Banque de Paris. et des Pays Bas, the Credit Lyonnsis the So-ciete Generale the Comptoir National the Banque de 1 Union Parisienne and Count d Armeny

Meetings of the international financiers concerned in the scheme were held and a Societs d Etudes was formed M G Raindri formerly a distinguished member of the French diplomatic service, was selected as President, with Sir William Garstin as British Vice-President and M. Homiskoff ex President of the Russian Duma, as Russian Vice-President, The Society consists of a council of adminis-tration of 24 persons. The Governments of all three countries gave their approval to the enterprise and on the firm representations of the British Foreign Office a formal memorandum was drawn up providing for absolute equality of British Russian and French con-trol in the undertaking It was agreed that in the northern balf Russian interest should be 60 per cent French interest 33 1 3 per cent and British 6 2 3 per cent, and in the southern ball Russian interest 6 2 3 per cent. French 33 1 3 per cent and British 60 per cent. French 35 1 3 per cent and British 60 per cent. The total interests of the parties in the whole line would thus be equal. The French and Russian. would blus be equal. The French and Russian proposal was that interests should be equal for the whole line. The above arrangement was made to meet British susceptibilities.

No announcement has yet been made of the settlement of further defalls in regard to the line. Its general route will presumably be from Astara siz Tcheran to Kerman or Yezd, and thence to either Bunder Abbas, at the entrance of the Persan Gulf, or Chabar a point on the Mekran Coast, about 100 miles west of Gwadur As to the cost £18 700 000 was the amount first declared by Russian experts as sufficient to cover the cost of construction and provision of rolling-stock for the 1 400 miles of railway in Persian territory English experts then believed that £15 000 000 would be sufficient. Further investigation has led settlement of further details in regard to the be sufficient. Further investigation has led competent experts on the English side to say that the capital involved must eventually total £30,000 000 at loast. The line presents no great engineering difficulties, but there would be a great variety of gradients throughout its length the line will rise at several points to some thousands of feet above sea level, and numerous detours will be necessary both for gradients and to serve local needs.

way of Aighanbrian. But many strategical two monibs after the agreement was announced objections have been raised to the trans-Persian they proceeded to Diriul, on the route of the railway and these considerations are strength line for the purpose of making preliminary end tentold in regard to bringing the Russian surveys. The Syndicate is composed of the Bas in recent years considerably increased her with Persian commerce us. Anglo-Persial way facilities in Central Ada The line stan Oil Company the Importal Bank the from Kramsvodik on the Rast Caspian above Euphrates and Tigris Steam Avigation Compose which is some Sto miles Euphrates and Tigris Steam Avigation Company the Important town of its prepared to undertake much more axten for the season of the stand to Andilan which is some Sto miles and Samer between the stand to Andilan which is some Sto miles and Samer Strain Company of the Chaisse Trikestan The great network of side railway construction in Southern Persia. north west of Kashgar the important town of Chinese Turkestan The great network of milways in European Russia is also now diranways in Kurogean Russal is also now di- As Russia will eventually bride a line from rectly connected by the Orenburg line with Tehersn to Khankin, the Khoramabad line transfers, and a connecting line links it up will probably be linked with this line at Hams with the couthern railway just described dan or elsewhere and Persia will thus have From Merv a line runs south to Kushk on the two routes from the Unit to the north. The Atphan border within a few miles of Heat, latest reports state that the survey work on the It is reported that Russia intends building Mohammerah Khoramabad line was hung up another line extending the Orenburg Tashkeut owing to the disturbed state of the Tashkeut owing to the disturbed state of the Tashkeut. someomers are extending the Orenburg Tasakkent owing to the disturbed state of the Luristan connection to Termes a point on the Orus tribes around Diriul The Persian Government of miles or less from Balkh, which again is close to the important strategical point, Mass it Sharit. It is doubtful whether in ri Sharif. It is doubtful whether in a race, Russia starting from Termes or Britain starting from the Khyber could reach Kabul first Termes, where it is stated, Russia proposes to throw a bridge across the Oxus, is the highest point at which that river is navigable from the hand Sea. The suggestion has often scriously been made in recent years that the Russian line from Merv to Herat should be linked to the Indian line which from Quetta proceeds to the Afghan border at Chaman The distance between the two rallheads is about 520 miles.

### Persian Gulf Lines.

Britain a special interests in regard to Persian railways are primarily associated with lines running inland from the Persian Guiff to supersede the old mule routes. Special to supersode the old mule routes. Special importance has for many years been attached in a supersode that for many years been attached in a subsence for a rallway from Mohammerah rallway would bring India within eight days dat the opening of the Karun Valley, where of London. The possibility was demonstrated the Karun River runs into the Shabel Arab by the performance of a party who travelled for below Basta near the Thrikish border), from London to Persia in 1914 and sent the northwards into the rich highland country's following details of their journey to the Tuest, of Western Persia. Britain has long establish. The party left London by the 8-35 pm. train at causal weaking with the Karun 'alley' on a Saturday and arrived at Bahu at 10-20 ed special relations with the Karun 'alley and has a large trade there. An agreement was reached between the Persian Government and the representative of a British Syndicate in February 1918 for the construction of a railway from Mohammersh to Khoramatad in the interior Persia offered the syndicate a two years' option during which period the route of the line was to be sirveyed. The Persian Government undertook to decide, on the completion of the survey whether it would build the railway as a State line under con-

terms of the concession to meet the situation thus created and Sir K. Grey stated in the House of Commons that every effort will be made to proceed with survey as soon as the situation in Luristan appears to the respondible authorities to justify such a step. It is contemplated that the Swedish gendarment. is contempated that the Swedian genearment which has done very good work recently in other parts will devote their attention to Luristan with the object of pecifying that part of the country as they have done in some other parts. As a result of repeated Anglo-Russian applications the Swediah Government permitted General Hjalmarsson the head of the Persian gendarmery to return to Persia in November 1914 The war has result d in great unrest as a result of German innigation in Vicetorn Persia

#### Period of Transit.

from London to Persas in 1914 and sent the following defaults of their journey to the Times. The party left London by the 8-35 pm. train on a Saturday and arrived at Baku at 10-30 pm (London time say 7.3) pm) on the following Thursday and at Entell, on the south west shore of the Caspian, (reached by ateamer from Baku) at 6 a m on the follow ing Saturday -that is within six and a half days from London They travelled rea Folker-tone Flushing Berlin Warns & Scaments, Rostoff and Beslan and were detained at War new some ten hours and at other points a full build the rallway as a State line under con ling to 64 days, which was a 'record. There tract with the Syndicate, or whether it would grant the Syndicate, or whether it would remained, at the end of their journey only grant the Syndicate a concession for the cun struction of the line. The Syndicate immerciate Syndicate immerciate Syndicate immerciate Syndicate immerciate Syndicate immerciate Syndicate S

# Foreign Consular Officers in India.

Name.	Appointment.	Port
Argentine Republic	<del>\</del>	
Mr C W Rhodes	Vice-Consul	Calcutta.
Aostria Hungary	, and consum	
<del>-</del> -	J	
The American Consuls are in charge of Austro Hungarian interests during the War		
Belgium	1	
M. Robert Chaldron	Consul	Bombay
Mr J Symon Mr J H Fyfe	Do Do	Calcutta Karachi
MI F 8 WILLY	Do	Aden
Mr G E. Walker Mr W Macdonald	Do Do	Madras.   Rangoon
Mr R A Scott	Do	4.kyab
Mr J Lince Mr R. W Watson (In charge)	Vice-Consul Do	Calcutta Do
Bollvia		į
Kumar Shyama Kumar Tagore	Consul-General	Calcutta
Brazil.	}	}
Mr Joskim D S Nahapiet	Consul	Calcutta.
Mr T A DeSouza Dr Edward F Underwood, M. A. M. D	Do	Do
Ph. D. J P	Vice-Consul	Bombay
Dr Edward F Underwood, M. A. M. D. Ph. D. J. P. Mr. J. B. Halliday Mr. J. F. Brown	Do Commercial Agent	Rangoon Do
Chile.		
senor Don A D Garces	Consul-General	Calcutta
G Bendien (Acting) Kr R Mensies	Vico-Consul Do	Bombay Madras
Senhor L. Grommers	Do	Calcutta.
Mr A R Leishman Mr C Kauffeld	Do Do	Chittagong. Rangoon
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China. It Hajao Yung Haj	Consul	Rangoon
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	Consul	Case at the
Cuba. Mr John Zuberbuhler (Acting) on loave	Honorary Consul	Bombay
or Blasio Paes (In charge)	Do Do	Do Calcutta
	1 200	CERTIFIE
Denmark		
dr C J Elton dr A F Solis dr B S Murray dr B. T Mensies dr I F Jensen	Consul General Consul	Calcutta. Bombay
dr E 8 Murray	Do	Aden
fr R. T Mensies	Do Do	Madras
dr I. B. Stevens	Do. Vice-Consul	Rangoon Karachi
Ur B G L. Eustace	Da.	Calcutta.
Cr. P T Christensen	Do	Monlmein.

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Name.	Appointment.	Port.
Ecuador		}
Kumar Shyama Kumar Tagore	Consul	Calcutta.
France.		ľ
M. Dejean de la Batie Mr. R. Niezuit Mr. C. Barret Mr. H. Martin M. M. Martin M. M. R. L. Price Mr. F. L. Price Mr. F. L. Worke Vacant Vacant Do Do Do Do	Consul-General Chanceller Consul Vice-Consul Consular Agent Do	Cabutta. Do Bombay Do. Adea Karacha Madras. Chittagong Bangoon 4kyab Coconada. Tellicherry Do.
Germany The American Consuls are in charge of Gor Interesta during the War	1060	
Greece.		
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U H. J Banders	Consul	Calcutta
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Japan.		(
ir Kametaro Tijima Shorokul ir Y Shibata ir Yasukichi Yatabe	Consul-General Do Consul	Calcutta. Do Bombay
Liberia.	1	
Dr. Benode Beharl Banerjee Dr. C. H. Freeman Underwood M.D	Coneul Do	Calcutta. Bombay
Mexico.	}	}
ir R. L. B Gali	Consul	Calcuts.

ions J. Grommers ions J G Bendlen ir D van Wyngwarden ir W Meek ir R A. Soott ionsleur W Massink ir J W Crusha ir A. J Stelger  Norwny  Ir H J Sanders	Consul-General (Consul Do	Calcutta. Do Bornbay Karachi Aden. Akyab. Bangoon Madras Colombo.  Calcutta. Bornbay Do, Aden Madras. Do Rangoon. Calcutta Chittagong Do Coconada. Tutlcorin Akyab Baseein Do Moulmein, Karachi
ir D van Wyngarden fr W Meek fr R A. Soott tonsleur W Masaink fr J W Crusha fr A. J Steiger  Norway  Ir H J Sanders fr F R Hardeastle (on leave) fr A D MacThali (acting) fr W Meek fr J F Simpson fr H A. Ress fr G J Smidt fr J F Simpson fr H A. Ress fr G G Ritherdon fr H Lucas fr A Gardiner fr B Miller fr D Miller fr D Miller fr D Miller fr B G Moylan fr J J Shaw fr E F B Wyatt  Persia  Hrza Sir Davood Khan Meltahoe-Saltaneh fr K C M G llura All Akbar Khan B.A., Barrister at-Law than Bahadur Haji Mirza Shujaut Ali Beg scant tumar Shyams kumar Tagore fr Ayub khan acant 100.	Consul Do D	Do Bombay Karach Aden, Akyab, Bangoon Madras Colombo,  Calcutta, Bombay Do, Aden Madras, Do Bangoon, Calcutts Chittagong Chotada, Tutloorin Akyab Basseth Do Moulmein,
ir D van Wyngarden fr W Meek fr R A. Soott tonsleur W Masaink fr J W Crusha fr A. J Steiger  Norway  Ir H J Sanders fr F R Hardeastle (on leave) fr A D MacThali (acting) fr W Meek fr J F Simpson fr H A. Ress fr G J Smidt fr J F Simpson fr H A. Ress fr G G Ritherdon fr H Lucas fr A Gardiner fr B Miller fr D Miller fr D Miller fr D Miller fr B G Moylan fr J J Shaw fr E F B Wyatt  Persia  Hrza Sir Davood Khan Meltahoe-Saltaneh fr K C M G llura All Akbar Khan B.A., Barrister at-Law than Bahadur Haji Mirza Shujaut Ali Beg scant tumar Shyams kumar Tagore fr Ayub khan acant 100.	Consul Do D	Do Bombay Karach Aden Akyab Bangoon Madras Colombo Calcutta Bombay Do Aden Madras Do Bangoon Calcutts Chittagong Chotada Tutlcorin Akyab Bassetn Do Moulmein,
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ir R. A. Scott ionsleur W. Massink ir J. W. Crusha ir A. J. Steiger  Norway  Ir H. J. Sanders ir F. R. Hardeastle (on leave) ir A. D. MacThali (Acting) ir W. Meek ir H. B. Fraser Kt ir J. F. Simpson ir H. A. Rees ir G. J. Smidt ir B. Miccas ir A. Gardiner ir B. Miller ir B. Miller ir B. Miller ir D. Miller ir J. McGracken ir J. J. Shaw ir E. F. B. Wyatt  Persia  Hirza Sir Davood Khan Meltahoe-Saltaneh K.C. M. G. Hirza Sir Davood Khan B.A., Barrister at-Law than Bahadur Haji Mirza Shujaut Ali Beg scant tumat Shyams kumar Tagore Ir Ayub khan acant 100.	Do, Do Do Do, Do Consul-General Comul Do	Akyab Bangoon Madras Colombo.  Calcutta. Bombay Bon Aden Madras. Do Bangoon. Calcutts Chittagong Coconada. Tutleorin Akwab Bassetn Do Moulmein,
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ir A D MacPhali (Acting) ir W Meek ir H B Fraser Kt ir J F Simpson ir H A. Rees ir G J Smidt ir B G Ritherdon ir B Lucas ir A Gardiner ir D Miller ir D MeCracken ir J J Shaw ir E F B Wyatt  Peraia  Hirza Sir Davood Khan Mehahos-Saltaneh K C M G Iller All Akbar Khan B.a., Barrister at-Law than Bahadur Haji Mirza Shujaut Ali Beg scant tumar Shyams kumar Tagore ir Ayub khan acant 100.	Consul Do	Bombay Do Aden Madras Do Rangoon Calcutts Chifttagong Do Coconada Tutloorin Akwab Baseein Do Moulmein,
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nf H 8 Fraser Kt tr J F Simpson Ir H A. Rees Ir G J Smidt  ## 8 G Ritherdon fir B Lucas ir A Gardiner fir D Miller far B G Moylan fir J McCracken fir J McCracken fir J McCracken fir J Shaw fir E F B Wyatt  Persia  Hirza Sir Davood Khan McRahos-Saltaneh ### KC M G  Hirza Sir Davood Khan Baa, Barrister at-Law than Bahadur Haji Mirza Shujaut Ali Beg scant tumar Shyams kumar Tagore fr Ayub khan acant 100.	Do Do Vice-Consul  Do	Do Rangoon. Calcutts  Chittagong Do Coconada. Tutlcorin Akwab Baseein Do Moulmein,
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llree All Akbar Khan B.A., Barrister at Law han Bahadur Haji Mirza Shujaut All Beg scant umar Shyama kumar Tagore Ir Ayub khan acant 100.	Coment-General	Calcutta.
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ir Ayub khan acant Do,	_00	Madras
acant Bo.	Vice-Consul General Vice-Consul	Calcutta. Karachi
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ir W Smidt ir J B Strain	Consul Do	Rangoon, Calcutta,
Portugal.		
cuhor A Casanova or E M. D Soura	Consul General	Bombay
Or E M. D Soure	Do Do	Rangeen Calcutta
ions. C Jambon ir Shairp	Do	Colombo
ir Romusii Cowasii Dinshaw	Do	Aden
or Rormusii Cowasii Dinehaw Fr F daCumha Pinto Fr A. B daFonseca	Vice-Consul	Bombay
or A. B deFonseca	Do.	Karachi.
or Eregno Dias or A. M. D Souga	100   100	Poons, Rangoon,

Жаше	Appointment.	Port.
Russia		
Vecant Mona, M. Bice Mona, Vsevolod Ampenow Mr. S J Bodaline	Consul-General Vice-Consul Do Do	Calcutta. Aden Calcutta. Do
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Spain,	Ì	[_
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Sweden.	[	j
Mr W L Wanklyn Mr B. R. Logan Mr L Volkart Mr A K. Adams Mr B T Hicks Mr T H Wheeler Vacant	(Consul-General Consul Do Do Do Vice-Consul	Calcutta Matras. Bombay Aden Rangoon Calcutta Moulmein
Turkey		
The American Consuls are in charge of Turkish interests during the war		
United States of America	•	
James A. Smith  § P. Doughten Samuel C. Rest  H. B. Ochorn Lacico. Merumin ger Frank C. Rich  Salter A. Leonard Sohn A. Nye Jacont  Selty S. Coleman	Consul-General Tee-Consul Consul Vice-Consul Commil Vice-Consul Vice-Consul Consul Vice-Consul Vice-Consul Vice-Consul Vice-Consul	Calcutta Do Rangoon Bo Madras Do Colombo Do Bombay
iames Oliver Laing 2. L. Rogers Facant Intindr G. Watson F. W. Timewell	Consul Vice Consul Consul Vice-Consul Consular Agent Do	Karachl, Do Aden Do Busrah Persian Gulf, Chittagong
Uragasy		}
Iona, C Jambon	Consul	Calcutta.

## The Army in India.

The great sepoy army of India originated in readily took services under the East India the small establishments of guards, known as been, corolled for the protection of the fac sent to India the first being the 39th Foot, tories of the East India Company but sepoys which arrived in 1754 were first callisted and disciplined by the French. who appeared in India in 1865. Before this, detachments of soldiers were sent from Eng descriments of solutors were sent from Eng land to Bombey and as early as 1825 the first lortified position was occupied by the East India Compeny at Armagon near Vasmilpetam Madras was acquired in 1640 but in 1654 the garrison of Fort St George consisted of only ten men. In 1651 Bombay was occupied by 400 soldiers four years before the French ap peared in India In 1863 the garrison of Bombay consisted of 285 men of whom only 93 were English the remainder being French Portuguese and nativee

While the origin of the regular scoop army is usually dated from 1748 when Stringer Lawrence the father of the Indian Army enrolled an Indian force in Madraa, it is in teresting to note that there was a considerable military establishment in Bombay prior to that date In 1741 this establishment which was considered as one regiment consisted of a captain nine lieutenants, fifteen ensigne, a surgeon two sergeant majors 82 sergeants, 82 corporals, 25 drummers and 319 European privates, together with 31 masters (probably Eurasians) and 900 topasses—presum ably Goances These were distributed in seven companies their total monthly pay being 10 314 rupoes. There was in addition a kind of native militia composed of 700 sepoys in cluding native officers. These were maintained enrolled an Indian force in Madras, it is in of native militia composed of 700 sepoys in cluding native officers. These were maintained at a monthly cost of 312 rupers. They were not equipped or dressed in a uniform manner, but supplied their own weapons—swords and shields hows and arrows, pikes lances or matchicoas. After the declaration of war with France in 1744 the forces at Bombay were considerably increased and an agillery ware masted. Afterdy in 1741 the company was raised Afready in 1740 the Freuch at Pondicherry had raised a large force of Mussiman soldurs armed and equipped in the European fashion and the fall of Madras which the French captured in 1746 induced the English East Indus Company to health the formation of a military establish ment of like nature. In January 1748 Major Stringer Lawrence lawded at Fort to David to command the forces of the Company. The English foothold in India was then precarious The French under Dupleix were contemplating further attacks and it became necessary for the English Company to form a larger military establishment. The new commandant at once set about the organisation and discipling of bis small force. The garrison was organised in seven companies and the peous or factory guards were also formed into companies. This was the beginning of the regular indian I his was the deginning of the regular Indian Army of which Lawrence eventually became Commander in Chief In Madras the Ruro-pesn companies developed into the 1st Madras Furtilers similar companies in Bombay and Bengal became the 1st Bombay and 1st Bengal Findlers The native infantry was amilarly developed and organized by Lawrence and Cive who was his contemporary, and military adverturers both Mussimen and Hindu-

which arrived in 1754

Struggle with the French.

From this time for a century or more the Army of India was engaged in constant war After a prolonged struggle with the French whom Duplets had by 1750 raised to the position of the leading power in India, the efforts of Stringer Lawrence, Cilve and Eyre Coote completed the downfall of their rivials, and the power of England was established by the battle of Plassey in Ben gal and on the field of Wandewash in Southern India. In 1761 the final overthrow of the French was completed, and the territ tories of that enterprising people were reduced tories of that enterprising people were reduced to a few settlements on the coast the principal of which, Pondicherry, was captured in 1793 But while the Army of India had accomplished But while the Army of India had accomplished this much they had now to contend with the great native powers, both Hindu and Mahonne-dan. A number of independent states had arisen on the decline of the Mughal Empire some ruled by the straps of the Emperor of Delin and others by the Mahratta princes who Dain and others by the matteriat princes who had succeeded to and extended the conquests of sivaji while in Mysore Hyder all, a Mussal man adventurer had established himself in the place of the Hindu Raja A great and prelonged struggle took place with the rule of Mysore in which the forces of the Orown and the Company s Army bore a distinguished part This struggle extended over nearly twenty years, and terminated only with the death of Hyder's son and successor Tipu when his capital of Scringapatam was taken by assault in 1799

Presidency Armies
The extension of British territory had necessitated a corresponding augmentation in the strength of the armies of Bengal, Madras and Bombay which were entirely separate organisations, as rendered requisite by the great distances and independent territories by which they were separated. But Bengal and Bonnbay troops had taken part in the war in Southern Indua although the brunt of the fighting had failen on the Madras Army These armes had grown both in strength and efficiency. In 1787 the Governor-General Lord Cornwalts, wrote to the Duke of York---- A brigade of our sepoys would mak arrhody emperor of Hindustan. The appear ance of the native troops gave me the greatest satisfaction some of the battalion were perfectly well trained and there was a spirit of emulation among the officers and an attention in the near which leave great distances and independent territories by and an attention in the men which leave me but little room to doubt that they will soon be brought to a great pitch of discipline."

### Reorganisation of 1798.

In 1796 when the native armies were re organised the European troops were about 13 000 strong the native troops numbered som 57 000, the intantry being generally formed integrinents of two batallions each In Benga naive infantry regiments were formed by linkin existing battalions. The establishment of each two-battalion regiment was I colonel comman dant, 2 lieutenant-colonels, 2 majors, 8 captains the Government which he had haugurabed commissioned officers, 40 native effects, 200 passed from the feeble hands of his assessment of the proposed of the state 
### Policy of Wellesley

and artillery, and the blind Mughal Emperor at Dehli was held in the power of Perron Stadias & French General One of the first sets of the new Governor-General was to dissome the French party at Hydershad, a measure and we find that on reduction to peace estab carried out by Captain (afterwards Sir John); lishment in 1805 there were some 25 000 Malcotm. The French others in the Nizam s British and 180 000 matter troops in India. service were deported to their own country; and a treaty of alliance was country and a treaty of alliance was country. the terms of which a Contingent of Hyderabad Troops was supplied for service in the campaign M Seringapatam. Troops of all three presi leades took part in the campaign which termi sated with the capture of Seringapatam and sted with the capture of Seringapatam and he death of Tipu on the 4th May 1799 It not in this campaign that Colonel Arthur Valinety, afterwards Duke of Wellington and he had prominent notice It was now some into prominent notice It was now someony to direct attention to affairs in the garratic States which were encouncing on the territories of our ally the Minam, and had dangerous assendancy throughout India. An apportunity occurred in supporting the Penham, so had been expelled from Poons by Holkar

anney was organized in circuit (who accounts have one page of which was supposed by their requirents, rather stronger than those of the natural astuteness and capacity for organizations of European inharty. The Bombay the direction of diplomacy and mixture, and Army was organized on similar lines, with an a false glamour appears to surround their establishment of any two-battation regiments beare as warrours, to which bistory has leaf and a Marine Rattation six companies of an undeserved prestige. Their success must in European artillery were formed in 1798 part be prescribed to their intellectual acumen and arbitety and in part to the effete con-dition of those with whom they had to con-Besides the wars that have been referred to, the Rast India Company had been to, the Rast India Company had been engaged in minor operations particularly against the growing power of the Mainstias, which meaned the stability of the British in India In 1798 the Marques Wellestey planting and the stability of the British in India In 1798 the Marques Wellestey with the necessity of reducing the power and influence of the French, which had again ansen through the military adventurers who had established themselves in the service of various native powers. There was a French party at Seringapatan and the ruler of Mysore for the field at the beginning of every action. party at Seringapatam and the ruler of Mysore General Lake in the north of India defeated was in correspondence with Napoleon Bona the forces of Sindia in a succession of battles parte in Egypt At Hyderabad the French at Aligarh, at Agre at Delha and Lasveria drenhurer Baymond dominated the State army having under his command a disciplinal adjust, at Agre at Delha and Insert of the French Republic and wore the Cap of the Sanda and the Raja of Berra at Assertice, adventurers of the same enterprising of the Brigal and Madras armics were emanded that the Mahratta States, and especially in Sindia of the Brigal and Madras armics were emanded the Mahratta States, and the Cap of the Sanda and Madras armics were emanded and dischained large forces of infantry ployed they acquitted themselves with their minimum and articles. of the Brigan and BRATHA STRUCE were rule played they acquitted themselves with their customary valour and gained some of the most notable victories recorded in English history During the progress of these wars the Army of India was considerably augmented.

The Indian Army has been from time to time subject to incidents of mutiny which were procursors of the great catachym of 1857. In the lort of Velkere in 1806 were confined the ways of Tipu Sultan, those descendants of the most faustical enemy of the English in India being permitted to maintain a large body of adherents and an almost regal state. Naturally they intrigued, The native soldiers of the Company had grievances. The military authorities had issued a new pattern of turban, which owing to its resemblance to the bead-dress worn by half caste drumpers, gave rise to a runour that scrimity occurred in supporting the Fenhwa, to had been expelled from Foona by Helkar The Makurettas.

The Makurettas, originally rises postatory rolls in the beaute an organised nation indeed, and the second care of the smouldering the set the rule of Sivaji. After his death content siresdy existing to break out into open

muthy There were many signs and por-tonts typical also of the greatet rebellion. The officers had become setzenged from their near and lived too much apart from them. The native troops addenly broke out and killed the majority of the European officers and coldiers, their wives and children, quartered in the fort while the striped flag of the Sultan of Mysore was raised on the ramparts. But of hysore was raised on the ramparts. But it the parallel so far is close the method of dealing with the outbreak of 1804 differed whiely from the weakness displayed at Meerut in 1857. There was happily at the neighbouring station of Argo to solder of energy decision and courage both moral and physical Colonel Gillespie with the 19th Light Dragoons. Colonel Gillepile with the 19th Light Dragoons and galloper guns came down upon the mutineers like a hurricane, blew in the gates of the fort, destroyed most of the sepays and in the course of a lew hours suppressed the rebellion. This retribution struck terror into the hearts of other would-be mutineers and disaffection which was rifle throughout the Madras Army did not elsewhere find active expressions. expression.

Overseas Expedition.

Courseas Expedition.

Almost as dangerous was the mutinous discontent excited among the British officers by the file-advised measures of Str George Barlow unfortunately acting temporarily as toveron-General in 1809, which was with difficulty quelled by the tact of wiser and more considerate neth. It was not only within the confines of India that the Army distinguished itself during the period under review Expeditions were made beyond seas. Bourbon was taken from the French Ceylon hislaces, and the Spice Islands were wrested from the Butch and Java was conquered in 1811 by a force largely composed of Bengal troops which had voluntered for this service. In 1814 took place the Nepal War, in which the brave Giffespie who had so distinguished himself at Vellore and in Java was killed when leading the assault on a fort near Dehra Dun This war is chiefly of in terest from its having introduced us to the Gurkias, inhabitants of Nepal who form so large and efficient a portion of our Indian Army Second Mahratta War

### Second Mahratta War

In 1817 hostilities again broke out with the Mahrattas. The primary cause of the war were the Photaris a military system of bandits of all native races and creeks who formed mostly from the military adventurers from the mittary adventures who had been employed by native poten tates, had established themselves me strong holds on the banks of the harbads river from whence they issued to plusder the country from the end to end These people had become so formidable that, a large army had to be assembled for their destruction for they viewed with dismay and opposed with force the establishment of effective power in the land where they had so long carried on with impunity their lawless modes of life. To cope with this growing evil armies were to cope with this growing evil armies were to close in from every direction on the fastresses of the Pindaria. At the same time a watch bad to be kept on the Mahratia States, whose from afar the disaster of the reirest from rules, encouraged by the feeble policy that kabed. It is true that they had seen had followed when the strong band of the alan the advance of the victoress army and Marquia Wellesiey was removed, were prethe triumph of its return which was celebrated

pared to take up arms once more. Practi-cally the whole of the Army took the field, and all India was turned into a vast earny. The experiences of 1817 differed in no wise from experiences of 1817 differed in no was from those of 1808, except that resistance was less stubborn as the brigades of the European military adventurers no longer existed in the Mahratta armies. The Chiefs of Poons, Nag pure Indore and Ewalior rose in succession. At the battle of Kirkes, where the manup of the myriad Mahratta horse shook the very earth, they were beaten off by one-tenth of their numbers after a feeble attempt to charge a native regiment. At Koregaum where the de-tachment under Captain Staunton offered so gal techment under Captain Staunton offered so gail ant a resistance to the attacks of a vastly superior force, the Arabs alone fought on the side of the Mahrattas, 20 000 of whom stood file on the plann at Stabaldt a tew regi-ments of Madras native infantry beat off the attacks of the army of the Raja of Nagpors, and victory was assured by the charge of a troop of Bengal cavalry. At the hattle of Mahidgur the hosts of Holkar meted like snow from the face of the desert before the deter mined onslaught of a small army of British mined of a single of a small army of blasses and native troops. This was the last war in Southern India. The tide of war rolled to the porth never to return. In the Punjab, to the borders of which our frontier was now extended. the Army was to meet in the great military community of the Sikhs, a braver and more virile foa.

Reorganisation in 1824.

In 1824 there was another outbreak of mutinv this time at Barrackpore in a regiment that was unwisely dealt with when about to proceed to the Burmess War In that year the armies were reorganised, the doubleyear the armies were reorganised, use counse-battallon regiments being separated, and the battallons numbered secording to the dates when they were raised. The Bengal Army was organised in three brigades of horse artillery five battallons of foot artil-lery two regiments of European and 68 lery two reguests of European and we of native infantry 5 regiments of irregular and 8 of regular cavalry The Madras and Bombay armics were constituted on similar lines, though armise were constituted on similar lines, though of leaver strength. There were also various local forces, such as the Hyderabad Contingent paid for by the Nizam consisting of horse foot and artillery. The irregular cavalry were all silladers that is the troopers furnished their own horse and equipment, as do the greater part of the native cavairy of to-day. The irregular and local corps had each only two or three European Officers.

First Alghan War In 1859 the cocupation of Alghanistan was undertaken Kabul was occupied, and a large Army stationed in this country boyond the Indus There followed the disasters of Kabul, the name of British annual statements. the murder of British envoys, and the retrest in which a whole army perished. This disaster was in some measure retrieved by subsequent operations but it had the reaching affects on the secrets of the Army and on British prestige.

with barbaric papeanity at Penlawar, but the British army had lost the presige of in the wineshility which it had gained during a hundred years of victory throughout penineniar India, it is convenient here to give some account of the Siths in whom our army met a more for midsale enemy than they had hitherto en countered who have aince supplied many of the best soldiers in its ranks, and who less than nine years have served with valour and fidelity beneath our colours in the great struggle of the sepoy war. In the early part of the sixteenth century Baba Nanak, a peasant of a village near tashore, founded the religious soot which was to play such an important part in the bistory of India. The religion he presched was pure monothelem and in no way mill tant in its original form. The new faith founded on the Unity of God and the religious equality of man gradually made great head way the philanthropy and tolerance of its benets appealing to the hearts of men. The Gurus who succeeded Nanak were active in their teaching they founded and built the Godden Temple at Auritar and the sect began to assume a political significance. This hrought them into conflict with the Mughal Government and Sikhlem was subjected to that persecution which was alone necessary to transform it into a militant political force. Har Govind, the Sixth Guru became a mill tary as well as a spiritual leader and on his death in 1645 left the Sikhs a strong and millitant nower.

tant power

After two hundred years the Bikh faith bosume established as a guiding principle to work its way in the world hanak disengaged his little society of worshippers from Hindu idelatory and Mahomedan faith Amar Das preserved the community from declining into a sect of asceties Arjan gave his increasing followers a written rule of conduct and a civil organisation. Har Govind added the use of arms and a military system. Govind Bingh bestowed upon them a distinct political existence, and inspired them with the deare of being socially free and naturally independent Sikhism arose where fallen and corrupt Brahmanical doctrines were most strongly acted on by the vital and spreading hishomedan belled. As in the case of other sexts whose vickstindes are recorded in the history of the world, ruligious persecution gave to Sikhism that vivitiving influence which was the necessary stimulus to permanence and progress. With varying fortunes the power of the Sikhism that vivitiving influence which was the necessary stimulus to permanence and progress. With varying fortunes the power of the Sikhism that the fact of the fact of the conditated, and by 1785 they were predominant from the frontiers of Oudh to the Isdua. Their presting is illustrated in the story of the traveller Foster who describes the alarm caused to a pettly Chief and his people by the appearance of two Sikh horse near under the walls of their fort. The grest Dief Ranjit Singh, the "Bon of the Punjah, substituted his ascendancy throughout that revisions with the Ranjit biles doct was the ignal for internal discendions which in course these state, and brought them into conflict the tester that the state, and brought them into conflict the tester that the principal power a time easte, and brought them into conflict that the fact the reconstitution of the principal power as the easte, and brought them into conflict.

Sikh Wars.

A large portion of the Bengal Army under Sir Hugh Gough took part in the first Sikh War in 1845-6, in the opening battle of which at Mudki and Forozenhahr the native of which as anticki and recuessant like hauve troops did not greatly distinguish themselves, although they retrieved their reputation in subsequent actions when the Sikhs were de-teated at Aliwai and Sobram But the Ben gal Army had for some time been undergoing that deterioration of discipline which culmi nated a dozen years later in the mutiny were no longer the soldiers of Lake and Has and of expeditions overseas. In the snows and deserts of Afghanistan and amid the bloody scenes of the Khurd Kabul Pass and Jazdalak they had lost much of their ardour and pres-tige while they had witnessed the defeat and slaughter of their hitherto invincible English contrades. They fought well on occasion, stimulated by the presence and example of English regiments but their training and Boglish regiments but their training and discipline left much to be desired. The second Sikh War followed a few team later the indecisive battle of Chillianwala, the Sikhs were finally vanquished at Gujarat the 8khs were finally vanquished at Gujaraf. The other campaigns belonging to this period were the conquest of Sind by Sir Charles Napler and the Second Burmese War On the even of the Mutmy there were in the Bengal Army 21 000 British and 187 000 native troops in the Madras Army 8 000 British and 49 000 native troops and in Bombay 9 000 British and 45 000 native troops. The conquest of the Punjab extended our frontier to the country inlashited by those turbulent tribes which have given so much trooble by the 'r raids and have given so much trouble by thir ratio and foravs while they have supplied many soldiers to our army. To keep order on this north wretern limit of the Empire the Punjab Frontier Force was established and was constantly engaged in small expeditions which, while they generally involved but little bloodshed kept the Force fully employed for many years, and involved much actious work in the pur suit of an elusive enemy

### The Indian Mutiny

The history of the Indian Army in general and of the Bengal Army in particular is so closely bound up with the great Mutinv of 1857 that it is necessary to enter into some account of the causes which brought about that catastrophe, and to sketch in outline its chief events. In 1858 Lord Dalhousie resigned the Vicerovalty of India after a term of office marked by strenuous scrivity and by an extensive policy of annexs tion. From Oudh a dissolute and incompetent king was removed and his territories were annexed to the British dominions an act which could not but have a disturbing effect in a country where the natural and hereditary rulers of the people were regarded with the greatest veneration. The territory of Jhansi was also annexed, the Government refusing to allow the Rani to adopt an heir to succeed her deceased husband and the Nana of Bithur shopted son of the last Peahwa Baji Bao was refused a continuance of his adoptive father's pension. These two latter the Rani of Jhansi and Nana Salith, became the bitterest and most orsel of our meanies. The

a great majority of Oudh sepoys while men, abused the same race formed the bulk of forces of the same race formed the bulk of forces all occasions for field service had in the such as the twallor Contingent maintained by Native States under the terms of treaties with the British Government. A small per that attempts were being made to destroy contage of Makom dams of Hindustan was also to be found in the Benjal Native Infantive which he was most sensitive. There was while they supplied the greater part of the Cavalry of that Presidency It will thus be understood that in b th armies there was a quarters. The proselytical at Army Head understood that in b th armies there was a quarters. The proselytical gapitit was abroad, dangerous preponderance of one class, facilitating and extending combination on the part of the disaffected It was different with classified at the other Presidencies which were entirely separate from the Bengal Army the sepoys complained of the new cartridge, and under their own Commanders in Chief and where entirely separate from the Bengal Army the sepoys complained of the new cartridge, and under their own Commanders in Chief as will be that of swine and orem the mingled in the ranks a system which obviated and where men of every case and creed were at said to be list or assume and own the mingled in the ranks a system which obtlated former abhorrent to Musalmans, the latter the likelihood of combination among men ever sacrilegious to Hindus. The mysterious unprone to be ruspicious of one another. There leavened cakes were circulated and while were in the Maxima Army family these to keep their significance was realised by some it was the men true to their said. In that Presslency ignored by those in authority the senov had in almost every instance a large number of relatives living with him. He was not likely to abandon these relations to their fate and muliny against the Government the served The Pre-dicantal system in fact offered an effective safe-guard in the water tight compartments that prevented those arules from intermingling There was not only no sympathy but some antagonism be tween the different armies and on one occas sion when regiments of the northern and south power They had in addition the influence it is unfortunate that there was at Meerut no of a fanatical religiou to incite them to a holy; senter officer capable of dealing with the crisis war against the Christians. Their combina there were in gartison two batteries of field ton with the Hindus is, however somewhat artillery as well as one of the finest cavalry semantable and the causes which brought regiments in the British Army, the Carabithees antagonistic peoples into alliance must neers, and a bettation of Riffes. But fatable sought for elsewhere than in political intection paralysed the Europeans, and the fluctoes. That there were leaders such as the Nana, the Rani of Jhansi and the Maulvi Delhi. Here the troops soon followed suit, of Fystabad who made use of the native army murdered some of their officers, while others for purposes of rebellion has already been full—
soped, and a number of Buropeans of all casted. But the army would not mutiny merely ages and both sexes was massacred in the

smearation of Oudh was a severe shock to the smearation of Oudh was a severe shock to the smearation of Oudh was a severe shock to the smearation of the feddal nobles of that province, from which, it must be remembered a large portion of the Bengal Army was reduced from the constant the state of the severe of the severe from the constant three severes of racial difference fostered by political agitators and a settleous press. There were of racial difference fostered by political agitators and a settleous press. There were of racial difference fostered by political agitators and a settleous press. There were of racial difference fostered by political severe of the same of the Mughalis at Delhi there sat the shadow of a monarch whom transmitted the severe of the same caused to be venerated by Mussalmans throughout India. And in the Bengal Army political section of the same race formed the bulk of forces agrees majority of Oudh senoys while men of the same race formed the bulk of forces and caused of the same race formed the bulk of forces and caused of the same race formed the bulk of forces and caused of the same race formed the bulk of forces and the sevice had in the such as the cavalior Contingent maintained.

### Course of the Rising.

The introduction of the new cartridge for the Enfield Rifle in January 1857 caused widespread alarm among the native ranks of the army At Berhampore the 19th Bengal In fantry nguinted and was marched to Bar rackpore and there disbanded on the 31st March On the 29th March, sepon Mangal Pande of the 34th Bengal Infantry at Bar receptors the left and support the 19th Street St rackpore, attacked and wounded the Adjutant sion when regiments of the northern and south rackpore, stracked and wounded the Adjutants ern Presidencies were serving together an and European sergeant-major of his regiment, order had to be issued that the Madras sepoys At Meerut on the 24th April eighty five men were not to fritate their brethren by calling of the 3rd Bengal Cavalry refused to take the them Bengalls which was regarded as an owe cartridge. They were tried and septembered and unwarilite race which has never tence to ten years imprisonment their sendenpised and unwarilite race which has never tence being announced and fetters rivetted furnished any soldiers. While the sucception at parade on the 9th May This degrading the little of the Oudh sepoy had been hurt by the annextation of business the spark that securies of the Oudh sepon had been burt by aggravation of punishment was the spark that the annexation of his country the Muhamma fired the mutiny Next evening the troops dans still held be veneration the puppet who in Meerut rose, and added by the baraar rabble occupied the throne of the great Muhalis and killed every European they me, released their chorished the recollection of former glory and comrades from the saol and went of to Delhi, power They had in addition the inducence it is unfortunate that there was at Meerut no of a famatical religion to incite them to a holy sender officer capable of dealing with the crists.

and began the long seige which terminated with the capture of the city in the middle of September when the heroic Nicholson fell in the hour of victory Meanwhile the mutin; had spread to other corps of the Bengal Army The native troops at Cawnpore rose on the 4th June, massacred the Europeans of the Garrison who surrendered on the 27th, while the women and children were butchered on the 15th July the day before Havelock's relieving column defeated the Nana and entered Cawn pore. There was mutiny at many other places during this period not only at stations north during this period not only at stations north of the Junna, but in Central India, and in Bajputana, where the disaffected troops of the Gwallor Countingent were stationed at Gwallor Reemuch Nasirabad and other can townents. At Jhand a general messacre took place when the Europeans unwisely strendneed to their pittless too. Throughout Bundelkhand and the Central Provinces the wilder spirits of the country rose and banded with the mutineers. With few exceptions the Bombay Army remained local as and the Badras Army and the Hyderabad Contingent mauras army and the December Contingent although there were some lookated out breaks at Hyderabad and at Shorapur But generally speaking the rebellion did not spread south of the Taptil River On the Soth September the troops at Lucknow rose, and there began the long and glorous defence of the Revidency to the statement of the Revidency to the Revidency of the Revidency and the September 1999. by the beleaguered garrison under fir Henry Lawrence Lucknow was relieved by Have-lock and Outram on the 27th September but the rabel hold on the defenders was not refin quished mild Sir Culin Camphell advanced and drove off the mutineers with terrible slaughter two mortins later Having releved Lucknow Sir Culin Campbell marched to Cawapore where General Windham had been driven into where trigeral windiam has been driven into the intrachments, and was with difficulty holding his own against the Gwallor Contin-gent under Tantia Toyl. On the 6th December 1857 Cawapore was relieved, and the rebels retired on Kalpi. It was not until 1858 that the credit arms under \$18 Hurch Lores the reserve the small army under Sir Hugh Bose the most shifted and enterprising leader of those times marched through Central India relieving many belongured places, fighting many pitched battles and avenging the massacre of Jhansi in the storm and capture of that place at the capture of Kalpi, and at Gwallor where the Rami of Jianesi was killed at the head of her troops, and Sindle was restored to the capital from which he had been expelled.

# Reorganisation after the Mutiny

Reorganisation after the Mutiny

When the country had been pacified, the Government of India was assumed by Queen viscoria, and the Rast India Company ceased to takions of the Indian Army due to preparagist. The Company Refroean regiments were than to resist the menace of the Russian administrated to the crown and a regular system of relief of British regiments employed in the Army was improved by the climination India was instituted the charges being paid out of this reform many Madras regiments almost disseppeared, and while a new army were reduced and replaced by corps composed was raised in that Presidency, the Radras of more virile races. Class "troops and

shoes and in the streets. An army was at and Bombay armies were also reorganised.

Once organised for the recovery of Delbi, while large artiflery was abolished, with the extenses were collected in the Punjah which region of some mountain batteries and the remarkated loyal under the strong hand of John field batteries of the Hyderadd Contingent.

Lawrence. The British columns having defracted the robels who opposed them at Badil carried out by the organisation of a Staff Corps ki-Sarat arrived before Delbi on the Sth June for each Presidency on which the officers were and batteries of the Hyderabad Contingent. The officering of the reorganised armies was carried out by the organisation of a Staff Corps for each Presidency on which the officers were all borne on a general list and supplied to regi-ments and to the staff On completion of the reorganisation. In 1869 the armies had the tollowing strength -- Bongal Army-19 Cavalry and 49 Infantry

regiments

Madras Army-4 Cavalry and 40 Infantry regiments.

Bombay Army-7 Cavalry and 30 Infantry regiments.

Punjab Frontier Force-6 Cavalry and 12 Infanti y regiments.

Hyderabad Contingent—4 Cavalry and 6

Infantry regiments.

Other Local Corns 2 Cavalry and 5 Infantry

regiments.

The total strength amounted to 110 000 en and there were in India 65 000 British soldiers. The regiments were officered by a reduced cadre eventually fixed at eight British officers to each coips, except that the Hyders bad Contingent and other local corps had an bad Contingent and other local corps had an establishment of four only. The promotion of officers was made dependent on length of service, 12 years to Captain, eventually reduced to him years 20 years to Major reduced to 18 years, and 28 years to lieutenant-colonal. The Staff Corps system, which still continues in fact though not in name has the disad vantage that it entails the frequent transfer of officers from one corps to another. of officers from one corps to another

### Minor Campaigns.

During the period succeeding the mutiny until 1879, when the second Atghan War began there were many mutiny until 1879, when the second Atghan War began there were many minor campaigns including the Ambeyla expedition, the China War of 1860 and the Abysainkan War when Napler of Magdala, who had fought in the Sikh Wars and in the mutiny, commanded the expeditionary army There followed the Afghan War in which the leading figure was Lord Roberts. There were expeditions to Egypt and Chine, and various frontier campaigns, the most important of which was that on the North West Frontier which was that on the north west frontier in 1897 sloce when that turbulent country has been generally quiet. There were also the prelonged operations following on the annexation of Burms, several campaigns in East Arites and Somalland, and the expedition to Lhass. But since the Afghan War the Army of India, except that portion of the Erithst currient which was sent to South Africa. British garrison which was sent to South Africa, has had little severe fighting although engaged in many ardous enterprises,

Reforms.
The twenty years which began in 1886

companies were formed instead of men of every casts and creed being mingled in the ranks and in some cases class regiments were raised. But it is generally held that, it is better to form regiments of class companies and troops, although the class regiment has its advocates among those who hold that such an organi-sation facilitates segregation in case of trouble In 1887 we find the British Army in Indus numbering about 74 000 and the Indian Army numbering about 74 000 and the indust Army 163 000 men. In 1888 Indian bestalions were grouped in threes each with a regimental centre, and reserves for the native army were instituted these have been gradually aveg mented until the establishment numbers 25 000 In the following year Imperial Service 'groops to be placed at the disposal of the British Gov comment in case of emergency were related in Native States. These number 21,000 men officered by Indians and having Inspecting Officers furnished by British Officers of the Indian Army In 1891 the Staff Corps of the three Presidencies were amagamated, the first step in the abolition of the Presidency nrst step in the abolition of the Presidency distinctions, furthered two years later by the abolition of the appointments of Commander in Chief of the Madeus and Bombay Armies. While the fighting strength of the Army bad been augmented and improved during all these years the administrative services bad toese years the administrative services had not been neglected. The Supply and Transport services were improved and the Ordnance and Hilitary Works were reorganised, and measures were taken for the improvement of defences mobilisation and equipment. Changes were made in regimental organisation, and the pay and allowances of the troops were raised from time to time.

were raised from time to time.

The number of British officers has been augmented at intervals. The establishment in the native infantry formerly consisted of Commandant two Wing Commanders, and five Wing Officers. In 1900 the Double Company system was instituted, each pair of bom panes being placed under a Double Company. Commander the Wing Commanders being abolished. The establishment of regiments now includes 13 or 14 British officers, squadrums and commandes being commanded by drons and companies being commanded by native officers, of whom there are 16 in a regiment, Rhalders and Subadars commanding troops and companies, while Jemadars are their subalteron.

#### Lord Kitchener's Work.

The most momentous changes that have taken place in the Indian Army since the post mutiny reorganisation were carried out under the regime of Lord Kitchener who assumed the office of Commander in-Chief at the end of 1902. When Lord hitchener arrived in India, the Comwhen for a licenser arrived in thus, the commander in-Chief had only account to enumand of the Army with an Adjutant-General and a Quartermaster-General as his Chief Staff Officers. There was no General Staff, the Staff of the Army in India being divided between the capartments of the Adjutant-General and Quartermaster-General. The administration

measures involving expenditure had to be submitted to the Financial Department through submitted to the Financial Department through the Military Department which had entire control also of the Supply and Transport, Ormance Military Accounts, Bemount and Military Works Departments. The conse-quence was frequent differences of opinion between the Military Department and Army

Lord Kitchener organised a General Staff and established a Staff College at Quetta for the training of officers in the requisite duties the training of officers in the requisite duties a Critic of the Staff was appointed, and the proper division of the work of Staff Officers was made those of the General Staff being made responsible for the branch dealing with the Art of War including the training of troops, while routine and administrative duties were undertaken by officers of the Adjutant-General s and Quartermaster General s Departments.

On arrival in India Lord Litchener found On arrival in India Lord kitchener found that the military system, originally constituted on sound lines, had gradually departed from the intention of its founcers, and much of the power properly belonging to the Commander in-Chief had been usurped by the Military Department, while a mecession of economical Finance Winisters had so out down economical Finance Ministers had so out down the military estimates and held the pursa-strings so tightly that it was impossible to force through any costly measure for the de-fence of the country. The military chaos which was the slow growth of a hundred and aftry yesers of constantly changing conditions required remoulding into an orderly common. The army was in many respects with its want of proper organisation for external war its repuderors and antiqueted administrative. ponderous and antiquated administrative sys-tem its faulty distribution in units scattered on no known strategical plan more suited to the circumstances of a bygone age when the country had only recently been conquered and troops had to be retained at remote and isolated stations to overawe the inhabitants.
While the Commander in-Chief was a strong and determined man with a genius for organi-sation the Viceroy was also a great personality holding strong convections, and naturally a champion of the civil power Lord Kitcheser wished to remove the obstruction of the Milwished to remove the obstruction or the Mil-tary Department. Lord Curson could brook no weakening of the power of the Civil Gov-ernment. The question was not merely one of the abolition of a Department which had grown obsolete in its methods. It was a ques-tion of the status of the Chief Military Authority in the country

### Military Department Abelished.

On the recommendation of a Committee composed of Lord Roberts, Sir George White and Sir Edward Law the Military Bupply Department established in its place in 1996. Lords Curzon and Kitchener again came into Officers. There was no General Staff, the Lorda Curzon and Kitchener again came into Staff of the Army in India being divided bet conflict regarding the personnel of the new ween the negartments of the Adjutant-General Department, and the former resigned. The and Quartermaster-General. The administrative departments of the Army were under the Commander in-Chief now set about the task Nistary Member of the Governor General's Council, of which the Commander-in-Chief staff and contemplating its needs. The advance was an extraordinary member The condition of affairs was not satisfactory. The pro- of Rusta towards the Hinda Khush deno- possits of the Commander-in-Chief regarding nated the situation as it had deno for the best part of a hundred years. Under the old chaotic wide area of country. The nine divisions system the mobilization scheme provided for were distributed between two armiles, each the despatch of two armiles one through the with its Commander their heads resting on Khyber the other by way of Quetta to Kan dahar. From the North-West alone whence the conquering hordes of all the invaders whose the conquering hordes of all the invaders whose march is recorded in history had poured from time immemorial was the Empire of India subject to menace from without.

But under the system then existent the measures arranged for defence provided for a force of only four Divisions of all arms. This force was not only inadequate in numbers but in expanity for expansion. Its distribu tion and organisation were more mited for policing internal India than to contend with an external foe. The troops were distributed In Districts under generals whose commands were geographical in designation and in area were geographes in terms corps, and an area of acceptance for the field. In case of war the troops for the field army were to be drawn from all parts of India the various units being sorted out into Brigades and Divistions on arrival at the base of operations, and provided with a scratch lot of generals and staff officers for the occasion

#### Army Re-distributed.

It was in the reorganisation of the scattered It was in the reorganisation of the scattered and heterogeneous forces of the Indian Empire that Lord Kitcheners great work lay some steps had already been taken towards the sholition of those Presidency distinctions which formerly divided the Indian native forces into three armies supplemented by a congeries of local forces. But he found three armies each confined to its own prographical armise each confined to fits own geographical imits beyond which its units and its personnel did not ordinarily proceed, or when they did, they carried the chains which linked them to their respective Presidencies. The units of the Indian Army were remembered a fruitful same of confusion being thus eliminated residency and local distinctions were abo-liabed and a homogeneous army though composed of heterogeneous rares, free to bene-fit by the experience of service in any part of, India, was created. The experience of 1857 proved the measure of safety provided by the presidential system of three arms with nothing presidential system of three armies with nothing in common between them but the new re gime considered that the conditions of fifty gime considered that the conditions of fifty years ago were obsolete and had been entirely changed by increased facilities and raphinty of communication throughout the Empire. The whole army was formed into nine Divi sions, exclusive of the Burna Division, each

with its proper complement of the three arms under its General with staff complete. These Divisions were organised for war, each one sould take the field intact, leaving behind sufficient troops for the maintenance of internal sufficient troops for the mainsusure or corder Arrangements were made for the organisation of supply and transport. The reserve was not sufficiently large to supply the majority of war. It was expanded the reserve was not sufficiently large to supply the wastage of war it was expanded the infantry reserves being augmented, while the savakry was included in the system. Small and isolated stations were by degrees aben dened, the Divinious, or at least the Brigada, being assoubled with a due regard to strategical requirements and to the necessities of imining, though some are extended over a

the main course at queeza and regional.

The Milhary Supply Department with its Member on the Governor Generals Council, was sholished in due course an Army Department was created to deal with much of the business carried on by its predecessor with a Secretary in Charge. The Commander in-Chief is now the only Military Member of Council and it is a question whether he has not a burthen greater than one man can bear The recommendations of Lord Roberts Com. The recommendations of Lord Roberts Committee have been ignored for that Committee recorded the opinion that the concentration of the whole responsibility of Supply of the Army under one head if that head is to be the Commander in-Chief would be opposed to all modern principles in regard to Armies." It was feared that the system now obtaining would lead to the diversion of too large a por tion of the time of the Commander in Chief from his natural military duties and it cer-tainly appears that the functions and status of that high officer have largely altered

Indian regiments are numbered consecutively the infantry from 1 to 130 the cavalry from 1 to 39 They have subsidiary titles based upon their composition their territorial origm or the names of distinguished officers with whom they were connected.

British troops are periodically relieved from England and the Colonies regiments ordi-parily being some fifteen years in India, where narily being some fifteen years in India, where they are kept on a war tooting by drafts sent from the regimental depots. Native troops consist of every warlike class, a great variety of races being found in the ranks. Gurkhas and Skihs to a great extent are organised in class regiments. There are Rejouts of both Oudh and the United Provinces Jats Dograsd Manratias Pathans, Helichis and Hazras. Mishratias are collected in Regiments of the old Bornbay Army Mahomedans from the south of India and from Hindustan are found in the ranks of many corns, and most of the in the ranks of many corps, and most of the Frontier tribes furnish their quotas

The native officers generally rise from the ranks, but some are given direct commissions, although this system has not been largely adopted. The volunteers form a valuable and efficient body of men who would be most useful in emergency having a good knowledge of the use of arms and furnishing some of the best shots in the country

The Military Police is largely composed of warlike races especially in Burma which is mainly garrisoned by these corps while in Central India the aboriginal Bhils find em ployment in the ranks. These, however though a useful auxiliary do not form part of the Army, and serve under the orders of the Civil Gov ernment

The Divisions of the Army are distributed as follows, their headquarters being at the Stations indicated.

Northern Army Hoscouarters-Morroe. 1st Division Poshswar 2nd Rawal Pindi Srd Labore M Meerut 715 Lucksow

Indian Britades. Dera Ismail Khan Derniat Brigade Bannu Brigade Bennu Southern Army Headquarters Octacamund. 4th Division

Quetta Mhow 5th \*\* Poons 6th Ootacamund 9th Burma Division Mandalay

#### Services of the Senoy Army

The history of the Army of India has now been traced since its inception down to the pre-sent time. The military history of the world presents no more remarkable spectacle than that of sents no more remarkable spectacle than that of its great army of soldiers of fortune which, led by a few British officers has carried our flag into every corner of the Eastern Hemisphere during the part hundred and fifty years. Soldiers by birth and breeding the sepoys of Hindustra and of the four quarters of India have served the Empire from Northern China to Carlier from Progressive to the islands of the to Ceyion from Egyp' to the islands of the Eastern seas in Belgium and in France. In the conquest of India itself in seconding the valour of a handrul of British suddiers they here borne a conspicuous part. The tarking men who opposed us so courageously in war—sikhs, Gurkhas, Pathans of the North West Frontier Jats and Rajputs—have fought with Frontier Jate and Rajpute—have fought with no less valour in the ranks of our army They sailed to the conquest of Bourbon, Mauritius and Java. With Cornwellia and Harris they traversed the passes which led them to Mysore and Seringapatam. Under Stringer Laurence Clive, Eyro Coote Lake and Welleslye they helped to ouat the French from Southern India. The great theatre of war in which they fought was diversified by every physical feature and characterised by considerable varieties of climate From Chitral to Makrau our soldiers have followed in the footsteps of Alexander the Great On the banks of the Hydiagree, on the very ground where the Macedonlans defeated Porus two thousand years before they fought the battle the Maccoulans asserted Forus two in the Nepal War of 1814, when they lought thousand rears before they fought the battle against ns and has absequently been displayed of Chillianwals against the Sikhs, who have themselves since been among the bravest soldiers of our army Every pass on the story readered him a valually soldier while frontier traversed by the invaders of old con tains the bones of brave men who have fails the bones of brave men who have fails the bones of brave men who have fails in attonal Katrs, has made him terrible in war in our service. The rude mountaineers of the While such a wonderful marchen the hills the frontier have eagerly entered the ranks of our army Beyond the limits of India our soldiers have entered most of the capitals of the East They have carried the flag to Cabul somers have entered most of the stag to Cabul to Cabul to Cabul to Cabu to Linas, to Peding, to Ava and to Mandalay Sepoys accompanied Baird and eighty years later Wolseley to the Nile The dark page of the Multiny is itself illumined by many gallant deeds performed in our service by the water archites: of the Eurice Instruction the native soldiers of the Empire. Lucknow was not defended by Europeans alone was not defended by Europeans alone — among pictured to the country of the countr among

Raj and great force of all arms, estimated to reach 200000 was despatched to the seat of war in France and Belgium, in East Africa, Egypt, Turkish Arabition and Shantung. This is not the time to speak of the conduct of Indian troops on their first appearance on the continent of Europe, but in all encounters their courage and tortifude carned unstinted praise (Q India and the War,

### The Fighting Races

The fighting classes that contribute to the composition of the Indian Army are drawn main by from the north of India Of these there are 35 squadrons and 214 companies of Sikhs who thus furnish a great part of the strength of both Infantry and Cavelry The Sikhs of whom an account has alroady been given are distributed throughout the Punjab Mahomedans of vari ous races contribute a still larger proportion to both arms. These are drawn both from the north and south of India as well as from beyond the frontier where the tribes contribute 56 com panies to our infantry while the Musaimans and Pathans of India itself furnish between them 68 squadrons of Cavairy and 250 com panies of Indantry These are all excellent fighting men hardy and warlike who have fur nished soldiers to all the great powers of India for many hundreds of years Large numbers of Mahomedans were to be found in the ranks of the Mahratta armies which opposed us during the early part of the last century As Cavalry the Mahomedans are perhaps unequalled by any other race in the East being good horsemen and

expert men at arms
Next to these in point of numbers are the little Gurkhas of Nepal of whom 161 companies serve in the ranks of the infantry. These with the exception of one company in the Guides are formed in twenty complete battailons. As fighters in the fills, the Guikhas are unsurpassed even by the Pathans of the North West Fronter. Their profilency as soldiers was first proved in the Nepal War of 1814, when they fought national Kubr, has made him terrible in war While such a wonderful marcher in the hills the Gurkha soon tires in the plains

The professional military casts of Ladia f.om time immemorial has been the Rajput who in habits not only Balputana but the United Pro-vinces and Oudh Of line physique and martial bearing, those warriors of Hindustan formed the backbone of the old Bengal Army and have sustained the British flag in every campaign in the East Their high caste and consequent prejudices in no way interfere with their martial instincts and efficiency in war. This class now ozvakry and 60 companies of infankry Docras are good and steady soldiers board in the hilly distribute of Funjab The railing Chief of Keshanir is of this casts of which are 11 Exeminate is of this caste of which are 11 squadratis and 55 companies in the army. Brah mains are not now largely enlisted white the Edwirstess famous as predatory here in the Edwirstess part now compose 54 companies of infantry. They are chiefly recruited in the Decean and the Konkan Nor must we forget the Hill Rajputs of Garhwal good and galiant soldiers, who supply two battalions, and the low caste men of Madrass so efficient as Pioneers and Sappers Some 9 000 Madrasis are still in the ranks. still in the ranks

## Improvements in Conditions.

Many improvements have been made in the pay of the soldier and the conditions of service They are thus summarsed in the Report on the Moral and Material Progress of India for the Moral and Material Progress of India for the decade 1901-02 to 1911 13. The decade began with an increase of the pay of British troops due to the adoption in India of the pro-posals of the Home Government for an increase of 2d a day from the 1st April 1902. The lavelved an additional charge on Indian re-venues of some £225 000 a year In April 1904 a further increase of from 4d to 73, a day was given in the form of service pay The whole of the service pay issued in India was in accordance with the decision of the Lord Celef Justice, acting as arbitrator between the Imperial and Indian Governments borne the imperial and indical Government borne by the latter, the extra charge being thus raised to about \$700 000 a year. From the last January 1909, in accordance with the in tention announced in the Proclamation of the King Emperor on the fifthest anniversary of the transfer of Government to the Crown a sense in the remainder to the Urown a general increase of pay for all ranks was granted to the Indian Army and arrangements were made for the free supply of fact by Government at a cost of £47 000 a year. The in grease was Rs. 3 a month for non-commissioned officers and then of the silladar envalvy and Es. 2 for other troops. Other measures that hasy be noticed were the raising of the kitmany ne mources were the raising of the kit-sensiety granted on emistment and the intro-daction of a boot allowance the grant of free grant to silladar cavalry when on the march or at manentures and of free passages by rail (within certain limits) for men called home on argent private affairs—all introduced in 1905 the revision and improvement of the remaillor rules of the Wativa Army and the pession rules of the Native Army and the abolition of the punishment of flogging in time of peace, except for offeness for which that parasishment is permissible in civil life, in 1907. Of and a revision of the rates of pay of sugastin and substitems of the Indian Army and a substitems of the indian Army and of regimental estates, involving a con indicable addition to the emoturents of the indian distributions and of regimental estates, involving a con indicable addition to the emoturents of the improvement in the indicated and indicate the improvement in the accommodation for the improvement in the accommodation for the introduction and the improvement in the accommodation for the introduction and the improvement in the accommodation for the introduction and the improvement in the accommodation for the improvement in the accommodation of the interest and when efficient were cent to serve with the Indian regiments at the front with the parallel in the improvement in the improvement of the interest of officers of from the ranks of special accommodation in the improvement of the interest in the improvement in the interest of the interest in the interest of officers of from the ranks of special accommodation in the improvement in the original interest in the improvement in the interest in the improvement in the interest of officers of from the ranks of special accommodation in the improvement in the original interest in the improvement in t

Doctus | tary Works Service instead of to regimental agency Finally a banus of thair a month's pay was granted to all non-commissioned of more and married to be better than and merciate of both the British and Indian armies, and to the equivalent ranks of the Royal Indian Marine, at the Coronation Durbar in 1911 at a cost of about 2168 000 On the occasion of the Coronation Durbar of 1902, a money grant to be spent at the discretion of officers commanding, was made to all British and native troops.

#### Reserves

The Indian Army Reserve dates from 1886. Index axiny neserve cases non reco-tuder existing arrangements, it consists of men with not less than three years' colour service. Men passing into the Reserve still belong to their respective regiments, and come up for two months' training once in two years. In 1904 when the strength of the Recerve was about 24 500 men it was decided to raise is gradually to 50 000 men reducing the reserve pay from Rs. 3 to Rs. 2 a menth and also to form an Indian cavalry reserve by extending the system to Silladar cavalry regiments. Reservists obtain a pension after 25 years total service There is a body of reserve officers whose numbers were targely increased soon after the outbreak of the war

Reserve of Officers.--For some years there has been entertained what was called The Indian Army Reserve of Officers-a small body of trained officers who would be available to replace the casualties amongst the British officers acrying with the Indian troops in time of war. This branch of the service was however. of war. This branch of the service was newever grievously neglected the conditions of services were unattractive the prospects of promotion were practically ull and the military authorities preferred to rely on the expedient of multiplying the number of British officers serving with findian troops in order to meet casualties rather than to train up an effective reserve This policy tested by the war was found wanting. The casualties amongst the British officers with the Indian regiments were very large indeed these regiments lost their initiative when deprived of the officers on whom they had been taught to rely and it was impossible to make the great gaps good from the ordinary officer class because of their lack of knowledge of the Indian languages and Indian conditions An appeal for recruits for the Indian Army Reserve of Officers met with a very ready response. The first enrolments reacted the substantial figure of fourteen hundred, a very large proportion of whom were drawn from the Volunteer Officers or from the ranks of special

## The Imperial Service Troops.

The voluntary movement towards co-operation in the task of Imperial defence that led to the formation of the force of Imperial Service the formation of the force of Imperial Service. Troops was initiated in 1887 by an offer made by the Nisam of Hyderabad whose example was at once followed by a number of the leading Native Princes. The troops which are under regular inspection by British Officers though available for Imperial service when placed at the disposal of the British Government by their Bulers belong to the States and are recruited from their subjects. Their armament is the same as that of the Native Army and in is the same as that of the Vallve Army and in training discipline and efficiency they have reached a high standard of excellence. They have done good service on the North West Erontier and also in China and Somalliand. At the beginning of the decade (1901-92 to 1911-12) twenty three States between them applied a total of over 16 000 men. Some additional offers of contingents have since additional offers of contingents have since heen accepted and the total strength 1 approx mately 22 271, towards which twenty nine States contributed The total included some 10 000 infantry, and 7 500 cavalry while transport and camel corps contributed 2 700 and 100 men respectively Sappers also numbered about 700 Gwallor contributes nearly 4 000 men, and Kashmir over 3 500 Patials Hyderahad and Alwar contribute over 1 000 each On the on threak of the war practically the whole tody of Imperial Service Troops were immediately placed at the unfettered service of the King Emperor Many of these offers were gratefully accepted and large bodies of imperial Service Troops proceeded to one or other of the theatres of the war (Q. V India and the War)

## Volunteers

The Volunteers of India may be classed under the head of British forces. They include foot and mounted Rifle regiments, light horse, and garrison artiflery with some electrical engineer and other specialised companies. Their role is the defence of ports, rellwave canton ments and civil stations a number of rife corres are recruited from railway employes, forming valuable bodies for the defence of their respec tive rallwave

On the outbreak of the war a general desire was expressed that a Volunteer Brigade should be raised for active service. It was decided that the place of the volunteer corps was in that the place of the country corps was in India Considerable numbers were however sent to the frost either in motor cyclist or machine gun detailments and a large number joined the Indian Army Revive of Officers According to the latest official returns the total number of volunteers in India was 43 671 There was however a larger accession of strength after the outbreak of the war and the vote for the Force was larger by Rs 14 lakh. The Force must now be over fitty thousand strong and its efficiency has markedly improved.

## The Imperial Cadet Corps

The Imperial Cadet Corps was founded in 1901 with the object of providing military training for the scient of ruling and noble families The Corps consists of about 20 young men of noble birth who have been educated at the Chicis tolleges The course of instruction lasts between two and three years and the cadets are taught military exercises and military science Its headquarters are at Dehra Dhun.

# MILITARY FLYING SCHOOL.

The Government of India sanctioned the establishment of an India Central Flying School at Sitapur with effect from the 1st October 1913, but the work of the school has been auspended during the war The object of this school is to gain experience in aviation under Indian con ditions with a view to its ultimate expansion
as a training establishment. The Commandant
has entire control of the school under the direct orders of Army Headquarters. The school consists of a commandant and three flying officers with the necessary medical and subordinate personnel. The British and Indian subordinate staff consists of civilians only ordinate staff consists of civilians only "ngaged on contract for specified periods

Conditions of appointment.—The qualitying conditions of appointment for the commandant and flying officers, are as follows.—

(1) To hold a Royal Aero Club's pilot certi ficate, (2) to be recommended by his Commanding officer (3) medical fitness (as stated below) (4) not less than two years service (fidlian Army). In addition indian Army officers must have qualified for final retention (5) not above the rank of Captain (6) a natural bent for the mechanical (7) to be unmarried (6) not

for the first six months they will be seconded in their regiments. An officer who is found at any time to be unfitted for the duties of the Regiment. It injured on hing duty the Commandant and flying officers will be eligible for gratuitles and pensions under the conditions and at the rates laid down in Army Regulations India Volume 1 Paragraph "48 et seg for officers who have been wounded in action in the event of death within seven years as the result of injuries so received pensions, etc. may be awarded under the conditions applicable to the case of officers killed in action or dving of wounds received in action

Equipment.-The Valuraja of Reval has gene oil presented an aeroglame to the Central Plying School Flis is of Royal Aircraft factory desgo and has a 70 h p Remails already desgo and has a 70 h p Remails already desgo and has a 70 h p Remails already design a machine peed of 72 miles per hour Other machines (consist of two 80 h p Gnome and two Laurice la man bi-lares (70 h p Renault). The sel oil possesses a portable Langar witch will remain er eted on the aerodrome until primarint ands are ready for occupation The portable hangar will then become available for housing mad line. The or the mechanical (7) to be unmarried

Officers are applied to the staff of the acros. The first flights were made on february school for a period of tour years from the date 24 1914, when a feward across the first flights were made on february and each officer flow in turn for a short time. Statf of the achoel.—The staff of the Indian Central Flying School normally consists of -1 Commandant at Rs. 1 200 per mensem with next

British Subordinates 1 engineer, 1 saijmaker 2 machinists, 2 riegers, and 1 repair shop mechanic

Indian Subordinates 1 carpenter 1 mg. maker 6 atters, 2 ringers, 2 repair shop mechaples, and I store keeper

## STRENGTH OF THE ARMY

The sanctioned establishment of the army in India for 1913-14 and its actual strength on 1st Armii 1914 were as follows -

	Sanctioned Establishment.	Actual Strength.
Trees under the orders of the Commander in-Chief in India		
British officers	5 017	5 001
British warrant and non-commissioned officers and men	72 323	73 165
Indian officers, non-commissioned officers, and men	160 313	150,574
Tycops not under the orders of the Commander in Chief		•
Britania officers	9	9
Indian officers, non-commissioned officers, and men	24 466	<b>29</b> 077
Total 1913-14	263,128	251 816
n 1912 19	263 555	251 761

In 1913-14 even battalions of Indian infantry and one battery of Indian artillery were employed in the colonies and in China. One mountain bettery of Royal Garrison artillery was employed in Egypt. There was an Indian contingent in Somalliand, and detachments of infantry and cavalry were employed in Perala.

The sanctioned establishment of the Native army reserve was \$6,046 and its actual strength on 1st April 1914 was \$4,290 as against \$3,712 on 1st April 1913

The number of Volunteers in the whole of India on 1st April was as under --

	1913.	1914
	<del></del>	
Rurolled strength	41,063	41 925
<b>Efficients</b>	33 830	89 240
Reservata	8.178	2.955

The net expenditure on the army (exclusive of Military Works and Special Defence Works) in 1913-14 as compared with that in 1912 13 was as follows -

		1912-13	1915-14
Effective charges Non-effective charges		# 15 291,875 8 117 348	£ 15 462,240 3,123 493
	Total	18,348 723	18,585,739

in India was the lowest on record, but ther valence of malaria, sanding fever, and dengue and to the admission of ear diseases, which a provious years would have been treated chiefly in baracks. There was a striking lowest yet recorded, invaliding home showed improvement as regarda enterio. Over 93 an increase

For the Indian Army both death rate and pressure and improved sanitary conditions are resulting to the simple of the troops have been inoculated. The simple of the troops have been inoculated fractions are the simple of the the causes of tas d cline of enterio. Malaria continues to be the dominating cause of ineff.

Health of the Spitish and Indian Arrajos.— taken, and further measures of this kind are During 1913 the death rate in the British Army urgently called for Admissions for dysentery rose slightly and admissions for ear diseases

The chief cause of alckness was as usual malaria, the admission rate from which rose from 80 to 100 4 per mille, the increase being confined constitues to the characteristic property of the ad to the northern stations. Prexis and respire mission rate rose from 82 4 to 125 5 per mile, tory diseases and snaddy fever were also important to epidemics in northern india. The portant causes of sickness. Procuracia, as used, applicable servey of sixtions where makers was the chief case of mortanes. The premains have been made at the chief case of mortanes, as used, the premains have been made at the chief case of mortanes.

a high mortality especially among Gurkhas.

Anti-enterio inoccalation is making progress among Indian troops, over 13 000 having been more districts. The net expenditure on marine progress and a number of small steamers three fists, and a number of small steamers is success amounted to \$2506 500 in 1914-15 as of 10s. exceptive officers and 1steamers included the cost of the Royal Indian Marino and the contribution towards the expenses of this Majesty's ships employed in the Indian artificers and others) numbered, in all, about \$223 men

### EXPENDITURE ON THE MILITARY SERVICES

	Accounts 1911 1912.	Accounts, 1912 1913	Accounts, 1913 1914	Revised, 1914 1915	1915-1916 Budget
Expenditure.	Rs	Rs	Rs	Rs.	Ra.
India—	}				
Effective Services-					
Administration Multary Accounts Regimental Pay etc. Supply and Transport	69 28 994 29 15 540 12 45 05 223 9 01,50 768	69 75 270 29 1 , 887 12,20 9 2 2 1 3 36 02,639	71 56 430 30 14 241: 12,23,80 0 11 3 42 78 307	63,44 000 28 09 000 10 85 00 000 8,14 35,000	58,56 960 24 94 870 8,2= 51 710 2,60,24 990
Veterioary Clothing Remounts	4 93 567 12,58 800 47 13,862	5 00 023 15 62 321 49 28 484	5 02 61° 19 24 690 48 52 456	4 07 000 34 72 000 54 53 000	8,28,900 27 34 290 43 74,970
Medical Services Medical Stores Ordnance	57 83 758 5 65 770 88 17 906	<b>56</b> 96 320 5 06 157 98 54 097	57 50 474 5 51 826 95 37 161	53 19 000 5 21 000 1 08 43 000	42,55 040 5 35 610 80,28,340
Federiastical Education Compensation for food, etc.	4 17 979 12 52,272 46 90 685	4 30 154 12.41 09* <b>6</b> 7 56 898	4 27 183 13,47 673 62,81 040	4 43 000 10 40 : 00 5 : 10 000	4 12,480 5 97 850 48,37 000
Miscellaneous Services Hutting Conveyance by road, river and sea.	89 22 432 3 04 955 8 74 856	81 2* 192 6 98 816 15 95 814	28 42 035 2,10 0 5 8 47 034	3 11 29 000 2 00 000 7 99 000	7 87 71 660 2,00 000 7 51 600
Conveyance by rail Cantonments Unadjusted Expendi	49 35 239 15 63 144 1 52,782	38 62 887 14 75 915 —6 79 193	42,43 200 24 2 408 1 29 023	43 45 000 16 09 000	87 7 <b>4,77</b> 0 1 <b>3</b> 87 550
Total Rs.	20 84 03,072	20 62,37 829	20 85 59 916	22 02 81 000	22,19 18 000
d on effective Services—	1 04 BJ 675	1 07,43 291	1 09 57 429	1 10 41 000	1 55 87,000
TOTAL INDIA RS	21 88 89,647	21 69,81,120	21 95 17,345	29 18,22,000	23, 75,05 <b>,000</b>
Lquivalent in sterling £	14 592 643	14 465,408	14,034,490	15 421 400	15 838 800

# EXPENDITURE ON THE MILITARY SERVICES.

	Accounts, 1911 1912.	Accounts 1912-1918,	Accounts, 1913-14,	Revised, 1914 1915	1915-1916 Budget,
EPGLAND— Lifective Services—	£	£	£		£
Payments to War Office for Luitish Forces Furlough allowances	914 000 185 990	941 648 141 4o6	917 287 145 302	930 700 81 000	990 700 4 000
ete of Billish o och Consolidaten Clothina Allowances of Bri	48 460	455	~ 412	20 800	20 400
tich oldiers Furlough allowances,	363 216	855 676	381 405	265 000	182,000
Indian Service. Ind an Troop Service Other heads	275 945 61 824	266 421 107,854	298 777 115,919	88 900 144 500	4,000 75,600
Clothing Stores Ordnance and Muscel	58 676 <b>84</b> 0 180	52,712 <b>5</b> 06,09	92,645 500 328	123 000 510,200	98 300 403 000
laneous stores.  Medical stores	104 612	95 980	94 4n6 ( 44 1_2	98 000 70,500	90 400 116 700
Supply and Transport biores. Military Farms Stores	51,005	52,879	11,204	10,300	13 900
Operations in Perstan	50 620	43,848	39 379	18 600	10 -00
Gult (Stores) Stores taken to India with Troops.	36,825	24 409	80، 17	19 100	18,200
Total £	2,439 364	2,589 430	2,538 876	2,880 800	1 907 100
Non-effective Services— Payments to War Office for British forces. Pennions Indian Service Other heads	898 331 1 431 735 174,473	919 183 1 424-242 177 263	927 029 1,407 596 181 245	946,000 1 975 000 203 000	650 000 1 365 000 218 000
TOTAL £	2,504 539	2,521 688	2 515 878	2,524,000	2,233 000
TOTAL ENGLAND E	4 943,903	5 111 118	б 15 <b>4,</b> 740	4 904 800	4 140,100
TOTAL EXPENDITURE £	19 536,546	19 576,526	19 789 239	20,36 900	19 973 700
RECEIPTS.	Ba.	Ra	Rs.	Ra.	Rs
Indus Ba	1,04 91 423	1 33,60 617	1 27 94,798	1 19 46 000	1 11 96 000
Equivalent in sterling £ England	£ 699 428 479 938	£ 890,708 887 095	£ 852,320 851,186	£ 7 <b>9</b> 6,400 865,100	£ 746 400 828,700
Total Beckipts £	1,179 366	1 227 803	1 203,506	1,151 500	1,075,100
otal Net Representations &	18,857,180	18,848,728	18,695,788	19 174,700	18,898,600

## Regimentum Strauschu of Berties and Implan Armus in Berties India (exclusive of Indian Artificers and Followers) for the year 1914 15.

	Northern Army			So	uthem Arm	у	Total.		
Cobps	25 B B B B B B B B B B B B B B B B B B B	Werrant & Non Commission ed Officers & Privates	Total	Committee	Warrant & Non Com mission od Officera & Privates	Total	Co m m l n stoned Offi	Warrant & Non-Com rulsalon e d Officers & Privates.	Total
BRITISH ARMY				1				 !	ì
Royal Artillery	292	7 681	7 973	287	7 509	7 798	o79	15,100	15 769
Cavalry	162	3 594	3 756	81	1 797	1 878	243	5 391	5 634
Royal Engineers	204	9	213	100	6	111	309	15	324
Infantry Invalid & Veteran Batabilahment.	784	28 164	28,948	672	24 126	24 708	1 456	52 290	58 746
Indian Army General List In fantry	71		71	30		36	101	ļ	101
General Officer unemployed	, i		1	1	<u> </u>		1		1
Total, British Army	1 314	39 448	40 962	1175	33 <b>4</b> 38	34 613	2,689	72 886	75,578

<del></del>									
1	Brlt	ish.	<b>Tadian</b>	Bnt	lah:	II dran	Вт	lti <b>is</b> h	Indian
CORPS	UBINET	Warrant and N ( 0	O floer N C O and Men	Officers	Warraut and N C O	N-C O	ОЩсега	Warrant and N C O	Officers N -C O and Meu
Indian Army Artillery Body Guards Cavelry Sappers & Miner Infantry	5** 37± 34 1 095	129	6 440 280 15 440 1 971 65 688	11 4 211 58 940	212	3 603 142 8 810 8 163 54 304	68 8 583 87 2 026	841	10 043 422 24 250 5 154 119 992
Total, Indian Army	1 502	129	89 919	1 209	212	70 042	2,771	841	15P 861
Imperial Service Troops			9,07~			11 992			21 069
Artillery Cavalry Sappors & Miners Infantry	i		1 363 1 314			565 499			1 928 1,808
Miners Infantry		<u>.</u>	086 088,61			11,886 			I 177 81,216
Volunteers— Küicients Reservists		17 790 1,521		781 12	20 122 1,538	i	1,549 31	87,921 3,064	

# THE MAST INDIES SQUADRON

Since 1866 a squadron of the Boyal Navy moves as the East Indies Squadron has been maintained in Indian waters. It has naturally warled in strength from time to time, and remy warmed in strength from time to time, and off lite years in partendar there have been averall danges in its composition the most recent being in the disappearance of strengthening it, owing to the disappearance of strength in the other aquadrons of the Eastern Fleet. In 1906 the squadron consisted of one second class and three amalier cruisers and four shoops or gantouts. In 1906 when the policy of withdrawal from Eastern water was inaugur ated, it consisted of two second ciam and two third class cruisers, and remained at this strength until 1910 when one second class substituted and three cruisers were lent from substituted and three cruisers were lent from supercursed and three crusers were not from the Mediffernanean to assest in the suppression of the arms traffe in the Gulf By 1913 the position of the East Index squadron had con sidenably improved The battlenip Swift sure had taken the place of the second class sentents which had been flexible and a model. sure nan taken the piace of the second class crumer which had been finguish and a modern sanged class cruiser rapiaced the Perseus. This is apparently part of the scheme for con stitioning a Pacific Fleet of three "units," one suft being the Australian teet which is ultimately to comust of 8 battle cruisers, 10 pro tested craisers 18 destroyers and 12 submermes seat up to the present it has completed, or seatly so one battle cruiser three others, air destroyers and three submarines. The other two "mile" will be the squadrons stationed in China and Indian waters respectively

The flast Indies Squadron at the beginning of the war someted of the following shape later details are not published in the Navy ( to ) .-

Commander-in-Chief (Vacant) Captain, Cocil Maxwell Letroy

Dartmouth cruser, 5,250 tons Captain, Judge D'Arcy

Fox, cruiser, 4,050 tons Captain F W Caulfield,

Alert, sloop 000 tons Lieut A Johnstone. Especie alcop 1 070 tons. Commander, W Nunn

Odin sloop 1,070 tons: Commander C. R. William

### Contributions to the Navy

A cock and bull story to the effect that the Native Chlefs of India were going to present three super Legalnoughts and nine first class eruisers to the Imperial Navy, was started in November 1912, and directed public attention to the question whether India was paying an to the question whether India was paying an adequate amount for the services rendered by the Navy Even the "laval Annual (1913 edition) took part in the agritation for an increased contribution by India it says—"Rumour has been perdistent regarding the extitude of India towards the Navy Some exaggerated statements were published during the year but nothing definite has been done. This is the more sometimes when it is remembered. This is the more surprising when it is remembered that, although the scaborne commerce of India totals 115 millions sterling the annual contribution to the Navy is only \$100,000 out of a total revenue of 82 millions sterling. It is true that very heavy expenditure is involved in the military forces of india but the com merce, coast protection and transporting of troops is dependent upon Britain's see power. There is a prospect that india will voluntarily Swiftsure, buttleship, 11,800 follow the example of the self-governing Dominions."

The preportion of contributions from the overseas Dominions towards neval expenditure is shown in the tollowing table issued with the last Navy Rationates that gave details —

Received from	Nature of Service	Total
	Maintenance of His Majesty's Ships in Indian Waters	£ 100 000
Ĭ	Indian Troop Service (on account of work performed by the Admiralty)	3 400
ī <sub>p</sub> āla -	Repayment on account of services rendered by His Ma jesty's Ships engaged in the suppression of the Arms	*
	Tracke in the Persian Gulf	64 000
Australian Common { wealth Dominion of { Comeda.	Contributions on account of liability for Retired Pay of Officers and Pensons of Men lent from the Royal Tavy	10,800
Ametralian Commonwealth	Survey of the N W Coast of Australia	7 500
Do.	Maintenance of an Australasian Squadron and of a branch of the Royal Navy Reserve	<b>61 60</b> 0
Dominion of New Zealand	Maintenance of an Australasian Equation and of the Imperial Navy generally also of a busich of the Royal Naval Reserve	100,600
Union of South Africa	General maintenance of the Mavy	85,000
Newlocadians	Maintenance of a branch of the Royal Naval Scarre	2,000
	Total	415,800

### India's Maries Expenditure.

That table, however, only shows a part of the expenditure made by Ladia on the Manie 1860 India has paid a constitution of varying amounts to the imperial Government is a sideration of services performed by the Royal Navy Dader calcular arrangements, when a from 1896-7, the schedy of £100 000 a year, sireedy referred to, us paid for the uplease of cash polythese of the East India Squadron which may not be employed beyond prescribed limits, and with the consent of the Government of India The other needs of market expanditure. amounts to nearly £400 000 annually are shown below. Charges and receipts in respect of pilot, age are as longer brought to account under this head.

		Accounts 1912-13.	Accounts, 1918-14.	1914-15 Revised.	1915-16. Budget.
Expandity a e					
India	В	88 5 <b>6,942</b>	38,85,541	36 0 <b>0,006:</b>	85 <b>23,000</b>
Equivalent in sterling I ngland	£	255 795 224,132	255 738 257 142	215 500	284,990 415,390
Total	£	479,928	12 845	456 700	650 400
Receipts	- 1	 			
India	R	13,15 039	13 43,120	13 38 000	10,22,000
Equivalent in Terling Lu <del>gia</del> nd	£	87 669	89,542	49 <b>_00</b> _	68,289
Total	£	8- 660	H9 542	89 <b>200</b>	68 200
<b>NAT FXPINDITULE</b>	£	392 209	423 303	368500	582,900

### ROYAL INDIAN MARINE.

The Royal Indian Marine (The Sea Service the E India Co took over Bombay Captain under the Government of India) traces its Young of the Marine was appointed Deputy origin so far back as 1612 when the East India Governor From them until 1877 the Marine Company stationed at Surat found that it was was under the Government of Bombay and necessary to provide themselves with armed atthough from that date all the Marine Re necessary to provide themselves with armed although from that date all the Magine He vessels to protect their commerce and settle tablishments were amalgamated into an Imments from the Dutch or Portuguese and from perial Marine under the Government of India, the pirates which infested the Indian coasts Bombay has continued to be the headquarters the prates which infested the Indian coasts.
The first two ships, the Dragon and Hoseander (or Oslander) were despatched from England in 1612 under a Captain Best and since those days under alightly varying titles and of various strongths the Government in India have slwave maintained a sea service.

The periods and titles have been as fall-to

ue benome una maior mare o	Ser Re TOTO AS" )
Hon E I Co. ■ Marine	16121686
Bombav	16861830
Indian Navy	1880-1963
Bombay Marine e	1863—1877
H. M. Indian Marina	18771898

and the official residence of the Director

### War Service of the Marine.

1612-1717 Continuous wars against Dutch 1812-1717 Committee wars against Dirices, Portuguese and Pirates for supremacy of West Coast of India. 1744 War with France, capture of Chandernagore, and Freech ship indiame. In 1755 Capture of Cattle of Ganeta, 1774 Mahratta War capture of Tonach. Latter part of the eighteenth ceatury, war with French and Dutch, Capture of Pontioberry, "Tencernic Latinatam Columba." Indian Navy

1880—1963

Bombay Marine e 1863—1877

H. M. Indian Marine 1893, Present day
Thomography
Royal Indian Marine 1893, Present day
The Marine has always been most closely teeth century suppression of Josephan Proconnected with Ropsbay, and in 1665 when rates in the Famisa Gulf, 1811 Cinquest of Tars. 1818 Expedition against Sultan of War. 1900-01 Boxer Rebellion in China, Sambar 1817 16 Wahrstie War, capture of Forks at Savendroog. 1819 Expedition et Forks at Savendroog. 1819 Expedition of Forks. 1919 Expedition practice of Mocha. 1821 Expedition against the Beol-Roc-All Arabs 1821 Expedition against the Beol-Roc-All Arabs 1821 Expedition against the Beol-Roc-All Arabs 1821 Expedition Captain Walter Lumsden, 0.v 0 CLE. E.W. Bornes War 1837 Bockade of Berbers and A D -C. Office Residence Government Dock years. 1835 Defeat of Benl Yas Plantic Captain Walter Lumsden, 0.v 0 CLE. E.W. Bombay Claim Captain Walter 1839 Expedition to Athenister and Captain Walter Ball Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. Advanced the Captain Walter Lumsden, 0.v 0 CLE. E.W. Advanced the Captain Walter Lumsden, 0.v 0 CLE. E.W. Advanced the Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition to Athenister and Captain Walter Lumsden, 0.v 0 CLE. E.W. December 1998 Expedition 1 rater 1838 Expedition to Aftendistan and capture of Karachi 1838 Capture of Aden 1949-42 War in China 1843 Schild War Battle of Meanes, capture of Hyderstad. 1845-46 Maori war in New Zealand 1848-49 Battle of Meanes, capture of Hydrabad, Battle of Meanes, capture of Hydrabad, 1848-49 War in Punjab siege of Mooitan 1852 Second Barnas War, Capture of Reagoon Martaban Basseln Prome and Pegu. 1855 Persian War capture of Bushire, Muhammersh and Abwaz. 1855-57 War in China 1857-56 The Indian Mutiny 1859 Capture of the Likand of Bevt. 1887 Lines War, Cankon War C Taku Forts, Fatshan and Pekin 1871 Abys sinian War 1882 Egyptian Campaign 1885 1882 Egyptian Cempaign 1885 moulen 1885 Third Burns War sinian War 1882 Egyptian Campaign 1885 Egyptian Campaign 1885 Third Burma War 1889 Chin Lahai Expedition 1896 Suskin Expedition 1897 Expedition to Imitiva Mombansa E. Africa. 1893–1902 S Africa African

(The Director R.I.M advises the Govern

ment of India on all maritime matters) DEPUTY DIRECTOR.

Captain E J C Hordern R.I M., Off Resi dence Government Dockvard, Bombay ASSISTANT DIRECTOR.

Cantain E G Mills R.I.M. Off Residence Marine House Calcutta

OFFICERS	
Commanders	93
Lieutenants and Sub-Lieutenants	72
Chief Engineers	10
Engineers and Assistant Engineers	75
WARRANT OFFICERS	
Gunners	24
Cherks	20
Engine Drivers	20

### PETTY OFFICERS AND MEN

### 2.225 Recruited from the Ratnagin District of the Bombay Presidency

#### SKIN4

Troopships	B I M. S	Hardinge*	6315 tons 5467	10 191 Horse 9 356	Power
Light-house Tender	n	Northbrook <sup>1</sup> Nearchus	5048 ,. 491	7,249 7p3	Persian G
Station Ship	Ð	Dalbousie* Mayo	1524 1125	2,502 2 157	Aden
Despatch Vessel		PALETICS.	903	1 277	Rangoon Persian G
Special Service	**	Minto*	960 ,,	2,025	Persian Guif
Surveying Ship River Steamer	,	Investigator Palinurus Comet*	1014 299 182	1 500 486 190	Baghdad
*1		Bhamo Sladen	172 270	360 360	Butnu

<sup>\*</sup> On Special Service

In addition to the above are 39 launches composed of apecial service saunches target towing tags powder boats military service isunches, etc.

### Pockrards.

There are two Royal Indian Marine Dock pards at Bombay and at Calcutts, the former being the more important. There are o graving docks and a wet busin at Bombay together with factories which enables the whole of the remains for the ships of the East India Squadron at the Royal Navy and for the ships of the Royal Indias Marine and local Governments to be carried out, and tuss, fightships pilot schooners, launches etc constructed

PRINCIPAL OFFICERS, BOMBAY DOOR YARD B. I M Officers.

Bar Officer Comdr C W Barneny, R.I.R. Francher of Mackingry, Chief Engineer T H. Knight, R.I.R.

### CIVILIAN OFFICERS

Chief Constructor Mr T Avery Constructor Mr D H North. PRINCIPAL OFFICERS CALCUTTA DOCKYARD R I M Officers Staff Officer Commander H Morland R.I W.

Inspector of Machinery Chief Engineer Lush 1.1.M

CIVIL OFFICERA. Constructor Mr G P Newsham Appointments.

In addition to the regular appointments in the skips of the Royal Indian Marine, and in the B. I M Dockyards, the following appoint-ments under local Governments are held by officers in the Royal Indian Marine -

### BOMBAY.

Port Officer Assistant Port Officer, 1st Engineer and Ship Wright Surveyor and 2nd and 3rd Engineers and shipwright surveyors to the Government of Bombay

#### CAROTTETA

Port Officer, Deputy Port Officer and As sistant Port Officer 2nd and 3rd Engineers and shipwright surveyors to the Government of Beneal

#### BURNA

Principal Port Officer Burms First Assistant Port Officer Rangoon Engineer and shipwright surveyor to Government of Burms. Assistant. Do do do do do

Port Officer Akyab Moulmein and Bassein Marine Transport Officer Mandalay, and Super Intending Engineer Mandalay

#### MADDAS

Presidency Part Officer and Deputy Conservator of the Port

#### CHITTAGORG

Port Officer and Engineer and Shipwright Surveyor

ADEN -Port Officer

KARACHI -- Port Officer

PORT BLAIR - Engineer and Harbour Master

### Expenditure

Recent expenditure on the Royal Indian Marine under all heads has been -

1913 14

£ 512 k45 £ 455 700

**-**15

Against this were receipts from Dockyards for outside work done and from sales of vessels stores etc which sumounted in 1913 14 to £ 89 542 and in 1914 15 to £ 89,200 so that the actual cost to the Blate for the whole service was -

1913 1914

£ 423 J03

1914-1915

£ 866 500

1915-1916 († timat )

± 582 200

# THE NICHOLSON COMMITTEE.

The Earl of Crewe (Secretary of State for to consider and report on the numbers and India) announced in the House of Lords on constitution of the armed force which should have been a specific to constitution of the armed force which should not be maintained in India to meet these obligations departments with the view of secting what any and if so what reseauers for the reduction conomies might be effected, and in that operation the Department of the Army was protection the Department of the Army was protected in the House of Commons and the Army was protected in the House of Commons and the Army was protected in the House of Commons and the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Arcording to the Military correspon by a Committee over which Field Marshall of the Military correspon by a Committee over

The Committee met in Simis in May 1912 consisting of —F M. Srr W (afterwards Lord) Micholson Lt General Sir Percy Lake, Chief of the General Staff in India, Lt Gen Sir Robert Scalion, Indian Army and Sir William Meyer, Chief Secretary to the Government of Mischus (n.w Floance Member of Council) The Lommittee were instructed by their terms of reference —First, to carry out a comprehensive survey of the various chromateness requiring the use of Military Force which may arise out of the enternal or internal singleting in India under the conditions which now exist or may probably arise during the next few years. Secondly

to consider and report on the numbers and constitution of the armed force which should be maintained in India to meet these obligations. Thirdly to consider and report whether any, and if so what measures for the reduction of Military expenditure are compatible with the efficient maintenance of that force its diliberations, which were private, continued intil Lord Nicholson left India in April 1913, and it was announced in the House of Commons that the Committee report would not be published. According to the Military correspon dent of The Times (June 2 1913) it has "been known for some time past that a division of opinion has taken place within the Committee Lord Nicholson and Sir William Meyer have aigned what must be called by courtery a majority report, because the distinguished Field-Maithal was given the invidious advantage of a casing vote. But Sir Percy Lake and Sir Robert Scalion are credited with having taken strong exception to many of the proposals made by their colleagues, and will doubtion that in the Importal Legislative Council on January 14th 1914, it was officially stated that the report would not be published. Any action on the Committee in necessarily held in abeyance during the War

# Indian Finance.

The Indian Budget statement for the year 1915-16 was awaited with absorbing interest for this was the first time for an official gene mation when Indian Figures had been affected Typics about of war the previous occasion being after the Afghan Was of 1877 78, when a grave our miscalouis ion was made as to the cost of the operations it is true that India, save the operations it is true that indis, save during the depredations of the German cruber. Standen on the reschant shipping, at the mouth of the Hugi II and at the approaches to Caylon, did not directly feel the impact of the But the whole r cent cour e of Indian development has been on the lines of do nin abed isolating. Her currency system connects her with the money markets of London and the world. She relas for ter int real dev lopment largely on borrowns in London, Her pros perty is nor sangly bound up every year with the growth of her tirein trade and this trade is with the wir le world, and in exports largely with the continuit of Europe It was incu-table that almost every branch of Indian finance should be affected by the war Toen as the Indian financial year does not close until the end of March the financial stan ment embo died the experiences of eight mouths of war Now the effect of the war may be summarised in a few words Despite the incritable dr location the Government were able to provide for a padiaous scale of expenditure, a moderate programme of capital works and to avoid all in grease in taxation. This was done by shightly increasing the borrowing programme

Pinancial Strength - Fortunately the war found Indian finances in an exceptionally strong position. The Treasury behaves in India and in England, were a million and a half storling in advance of the estimated figure. The five trore loan raised in India had been a great suc coas. The agricultural position, which is of Vital important to Indian finance was exceptimally favourable. The actual gold holding of the Government of India was £23; millions The Presidency Bunks were unusually well provided with funds. The only adverse condition was on unusually large stock of pleas goods, one of the main heads of suport, for shadowing a or one mean means or import, for anadowing a period of depression in this important branch of trade On the whole it may be said that hever were the commonic and immonal conditions to the country stronger

inflocts of the War . The first effects of the war were a threstored break in exchange The financial conditi no in India (see Currency) The funncial conditi he in liddle free Currency) take exchange consists, because of the large of the control of the large of the control of t

there was a resh by timid people to withdraw their flavings Banks deposits and to exchange currency notes for caln. Every facility was offered to both and the rush was stayed before it had produced embarrassing results total withdrawals from the Post Office Savings Banks amounted to 27 millions. As these deposits represent unfunded debt they had to b met so t of current believes and for this purpose Government borrowed heavily from the Gold Standard Reserve (40). The rush to exchange currency notes for coin was much shorter, and it was stammed mainly by the wise policy of the Government in materially address to the facilities for encishment. It was strong est in these Provinc s which had been most severely shaken by the failures of the mushroom Indian banks in 1913, namely Bombay and the Punish and in Burma. The net note circula tion was reduced by seven crores of ruples (£41 millions) First clars securities showed remarkable stability and the decline in Govern ment Paper was only three and a half rupees from the very high level it reached prior to the outbrak of the war Indian obligations in London were met without difficulty owing to the taot that the Government of India had to meet large obligations for the Home Govern ment in Indra thus avoiding the necessity for transfers chiefly on military account. The Bank rate remained steady at between five and six per cent. and there was no shortage of money for those with solid credit. The internal trade was dislocat d owing to the timidity of the Marwars, who are the chi f middlimen and many of whom fied to their homes in Rajpu tana and the export trade by the committee of the greater part of the continental demand for great stapies like jute cotton and oilseeds.
These are july coundered under Trade. But
the total disturbance was far less than enyone
had dared to hope. No moratorium was proclaimed, and India met all demands from her own resources. With this brice summary of the owa resource. What use he sampled to consider the actual budget statement but for its full understanding it is necessary to indicate the general considerations which give a special character to Indian finance

Financial Characteristics. - Three import ant facts have to be borne in mind in con-sidering the finances of India. The first is The first is savering the mannes of main. The man is that the Budget of the Government of India includes also the transactions of the Local Governments and that the revenues enjoyed by the latter are mainly derived from sources which they share with the Control Govern ment The principles underlying the relations of the supreme with the local governments are explained in the chapter desimg with this ques such the sale of what are called Reverse explained in the chapter dealing with this quest media or sterling this on Leaders. Govern too Generally speaking, certain heads of the atom quilibring verify and this are two exercises and the Imperial Government, and event a tam quilibring effect on the atomatical too beads are enjoyed entirely by the local structure. The next step was to result of the dividence which is a green with the dividence which the dividence which is a green with the dividence with the dividence which is a green with the dividence which is a green with the dividence which is a green with the dividence which we will be provided to provide a green with the dividence wit spending departments which they panage, such as ordinary public works, police, educa-tion, medical, courts and jests. The Govern ment of India take the whole of the revenue according from the export of opinm, salt, customs, mint, rail ways, posts and telegraphs military receipts and tribute from Native States. As regards the expenditure the Government of India are mainly responsible for the outlay relating to defence railways, posts and tele-graphs interest on debt and home charges and the provinces for charges connected with and revenue and general administration forests, police courts and jails, education and medical, whilst charges for irrigation and ordi

cally known as the Home Charges. amount now to some eighteen millions sterling and are met by the Sourctary of State selling and are met by the Searctary of Matte sailing for gold drafts in rupees on the Indian Trea suries known as the Council Bills or telegra-phic transfers. These Home Charges were for many years erroneously described as a drain on India. A large proportion how ever goes to defray the interest on the sterling ever goes to dering the interest on the sterring debt and the outlay on the purchase of stores and railway materials which cannot be acquired in India. The only part of the Horse Charges which by any stretch of the imagination can be termed a drain a that which stands for civil and military officers on leave or medical, whilst charges for irrigation and ord! | stands for civil and military officers on leave or mary public works are common to both impersal and Provincial. The second point is test a very large proportion of the revenue of the conversment of India is derived not from rendered. One supplementary point which areation but from great State enterprises. It were artificially inflated for several years by may be taken roughly that nearly two-thirds the unisual opum receipts. The Government of the gross revenue is derived from sources of India used to sell opinin for export to other than taxation such as the land China or the right of exporting opinin to China revenue, opinin, forcets, tribute from hative is the properties of the trade States, posts and telegraphs, railways and inflated prices were given for opium for export irrigation. The third point is that the Secretary of State for India enters into very large. This led to large windfall surpluses which financial transactions on behalf of the Indian finances appear more prosperous than they Government in order to meet what are general really are.

Twelve Years Finance

We may now turn to the financial results of the last ten years in pounds sterling.

	Revenue	Expendi ture	Surplus	I	Revenue	Expendi- ture	Surplus
	£	£	£	1	£	£	£
1904 5 1905 6	71 100 000 70 800 000			1910 11 1911 12	89 300 000 88,885 750	76,900,000 78,886 416	
1906-7 1907-8	73 100 000 71 900 000	*1 500 000 70 700 000		1912 13 1913-14	86 995 200 84 268 000	8 <b>5 625,49</b> 0. 83 <b>674,06</b> 0	
1908-9 1909-10	69 800 000 74 600 000	73 500 000 74 000 000		1914 15 1915 16	80 15 <b>6 000</b> 80 <b>347 000</b>	85 115 000 84,180 000	*4 989,000

Deficit.

deliberately budgetted for a deficit of nearly £ 4 This arises from the interminaling of millions. This arises from the intermingling of Provincial with Imperial finance. During the halcyon years when large surpluses accrued to the treasury from the optum surpluses and the general prosperity of the country the Government did not reduce taxation but devoted these surpluses in part to the extinction of floating debt and the avoldance of further debt by Shancing public works from revenue, and in part to large grants to the Local Governments for smellarative works objetly in improving education and sanitation But the spending of this money involved long pre-paration, with the result that the Local Govern-ment accumulated very large mismoss in excess

Provincial and imperial.—At this stage balances by no less than £1 million. If the one point would be made that According to provincial overdraft is excluded from the Budget the enexplained figures the Government of India estimate there is provided an Imperial deficit of £ 2 7 millions.

Summary -To sum up, the Bodget esti-mated for a deficit on the Imperial side of £2 8 millions and on the Local Governments the property of the property o aggregate catimated excess of expandinare over revenue was estimated at 53 8 in theora. The fludget was based on the sesumption that the war would last throughout the oursest fluar-cial year that is to any until the end of Manuel 1210 and that there would be a deterioration of revenue throughout the year. On the other hand it was assumed that there would be about the control of the session of the control of the control to the control of of the normal. As these plans have material, such as land revenue, would be marked. Or the Local Governments are ready to draw on the space the France Hember did not entirely the committation. It is estimated in the circumstation would be a needed difference to truly year. In appendix, that is a supposed with the meaned remains of 1984-15.

### Radget Estimates for 1915-16.

The influence of provincial finance on the Imperial Budget is clearly set out in the following

sable —		[In M	illions of £]
		levised 1914 1;	i
	Imperial.	Provincial.	Total.
Revente	49 927	90 229	80 1.6
Expenditure	52 669	32 446	8ა 115
Deficit ()	-2 742	~2 217	-4 959
	B	idget 1915 191	б
	Imperial	Provincial.	Total
Revenue	49 655	30 692	80 347
<b>Exp</b> enditure	52 425	31 ,50	84 180
Deficit (—)	-2 770	-1 083	-3 833
		1	

Budget Features - Every Indian budget is | £463 000 higher almost entirely under the head used on the expectation of a normal monsoon of Land Revenue But very few Indian monsoons are normal, consequently the story of Indian finance is one of alternate surpluses and deficits. Close estimations bug being impossible, captious estimates of reveniences. et be made. again, it is no uncommon experience to find that the spending departments sare not able to speed up to their estimates ewing to the delay in obtaining material from Rogiand, shortage of labour or the necessity

year at £80 347 millions, as compared with £49 927 The principal decreases in revenue were under Customs Sait and Railways, Under Cus toms (£377 000) because of the general decline in trade and the cessation of most of the continen in trade induced by the war under Salt (£115,000) because of the large payments of duty (£315,000) because of the large payments of duty would mean an interruption of chemes already made on the eve of the expiry of the financial communiced with consequent waste and hard passes on the ever of the expiry of the mancial commanced with consequent waste and hard passes in anticipation of an increase of duty and ship, a compromise was struck. The Provincian that the passes of the general distribution and the Imperial Government that the Imperial Government of the Land Revenue in the Imperial, allowed them to draw on their secumulated share of the Land Revenue of £428,000, and balances to the extent of £1 million on March trades Option, consequent of improved prices, of Sixt, 1916, it is estimated that the Provincial £228,000. The Provincial Revenues were placed. Balances will amount to 27 millions

The expenditure was estimated at £80 347 millions as against £ 80 156 of thin £49 655 millions was Imperial as compan d with £49 927 There was an estimated saving of £244 000 under Military Services as all save the most argent expenses were postponed until the end of the war and of £12.7000 under imperial Civit Works. On the other hand there was an in crease of £550 000 to meet the interest, charges on the borrowing programme which will be set out later

Rogiano, spanning plans before works can one of matering plans before works can be extended of industry and paople, owing to the extended of industry and the large sams of money that have flowed into £31 "55 millions or £891 000 less than in the the country owing to the high prices of expert) previous vers and £2 293 millions below the troops, has introduced a steadying force into figure for the year before that. The reason for fluence, badgetting is still largely what an ex.

Figure Rember described it, a gamble in from what has gone before where it was explained that the Imperial Government have made large grants from they opium and other made and they opium dicure on Lducation and Sanitation £ 80 150 in the previous year Of this the not been fully utilized owing to the necessity imperial share was £49 555 millions as against of preparing programmes and plans and large not been fully utilised owing to the necessity sums are held to the credit of the Local Govern ments in the Imperial Balances. In the special circumstances of the war the Imp rial Govern ment might have put an embargo on all expen diture under this head but realising that this

### Education and Sertistion.

In the Compter on Frances in the Indian Year Book for 1015 (p. 163) figures were given the remarkable produces under the circuiton, modical relief, and satisfation since the war 125-121, what the Coveniessed of helic began to give grants from their surpluses for these

These figures showed that the expenditure under Education and Medical had practically doubled and that under the head of Civil Works there had been an increase of 64 per cent whilst there must of necessity be some slackening in the page during the years of war the mag nitude of the Imperial contribution for this purpose is apparent from the following table —

		[In the	usands of	£ ]
	given (	Oranta 1911 12 15 18).	Total Expenditure Indured (1911 1) to 1915 16)	Balance rpected to be vallable on 1st April 1916,
	Re curring	Non re curring.	You r surring	Ton re
(1) Felucation (2) Sanitation (3) Medical Bellef etc. (4) Agriculture etc (5) Grants for other special purposes (6) Grants for general purposes—Discretionary grants	763 246	3 166 1 723 58 17, 1 545 887	2 0 7 6 1 11 - 53 1 6 6 1 41 6 3 8 8	1 088 611 5 11 129 279

Add-Savings on recurring grants during foregoing period (about) 395 Total amount expected to be available from special grants on the 1st. April 1916 2..18

Total

1 008

of the Government of India is complicated by transactions on capital account—by provision for rallways and irrigation and since the transfer of the capital for the new Delhi It has been the practice in the past to finance these works in part from revenue surpluses and in part from borrowings in India and in London Revenue surpluses have been drawn upon so largely for this pur pose that there is really no unproductive debt in India, and the nominal figure of unproductive is only £12 millions (gr Debt) The large balances accruling from the oplum surpluses over and above the allotments made to the Local Governments and the redemption of temporary debt allowed the allocation of exceptionally large sums from balances to the avoldance of debt

Increase of Debt.-These capital transactions tions assumed a special importance in the Bud set for 1915 16, because the dovernment of India deckled to meet all their requirements without an increase of taxation but by tem porary and permanent berrowing As Ways and Means formed the crux of the Sudget we give these salk ut passage a from the Fluancial Statement in some detail -

'We have to find funds from which to meet the Imparial deficit of the coming year and the expenditure by Local Governments in excess of nection with the purchase of the Indian Midland; Rallway some years ago is also due for dis

Capital Account.—Reference has been made along it is optional to its to curtail our commit to the manner in which the financial statement | menta | We are very reluctant to do this in the ments. We are very reluctant to do this in the We are very reluctant to do this in the ing the entire amount (£1 100 000) which our Public Works advisors consider they can spend, in the case of railways how ver it is inevitable that some considerable r duction should be made and in any rase even if finide had been available it is unlik by that in the present circumstances of man including establishments at home anything like the £12 million provided in the current year could again b up nt. We have accordingly taken the next year's Programme at £8 million. In the case of Dalbi. we have made a v ry large reduction confining the p rt y ar's grant to a working numbers

7 3 3 6

، 213 ن

2,123

The total of these liabilities comes to about £14 million. In addition we have to hadde 114 million, in addition we have to region as pending obligations requiring to be dealt with in councillon with the coming years financial programme the lucharce of the 67 million of India bills which the Secretary of State has raised in the current year, and the r-payment of our loan of the same amount from the Gold Standard R serve. Our total obligations or thus raised to some 1281 million

The first of the resources on which we can draw as against thes. requirements is afforded by the large cash balances with which w shall close the correct year Owing to the loans taken from the Gold Standard Reserve we the revenue which they expect to raise in the taken from the Gold Standard Reserve we same period. It million of debt mainly in con expect these to stand on Sist March next at about f?l million Ordinarily we regard Hallway some years ago is also due for this jerog minima as a nontrivial solution to charge. By way of percention too, we are our treasurks in India and at home at the close assuming the possibility of a withdrawal of of a financial year and we thus have about £1 in Hon more of savings basks deposits [24] million which can be regarded as available during the coming year. This accounts as a to-raids meeting our flatblistic generally and liability against Unfunded Debt. Ther re still leave all title margin over the normal closing makes the lead of Capital Carling under which balances. We shall also set saids from raws.

nue, under the Famine Insurance Grant head | clean on half a militon for reduction, or avoid suce of debt, thus raising our assets, to about Dehl while to meet our capital outlay and 55 million. Even so we are left however revenue deficits and our other various require to militan. Even go we are into however, with some 594 million still to find, and have also the 5.14 million of temporary debt still to consider. The question now is how is this shortage to be dealt with?

additional Taxation. - The fr t method of adding to our resources which would naturally suggest Itself-one which indeed, we have very seriously considered—is to follow the lead of the mother country and impose special taxation. We do not propose on this occasion to raise any money by increased taxation. should not besitate to do so to meet a deficiency in revenue which promised to be of a more or less abiding charact r But the present or cumutanors are altogether peculiar We know that ordinarily we can count on surplusers India too has a very small unproductive debt and, with trade conditions depressed, and the present abnormal rise in food prices in a large parts of the country we have come to the con taxation unless it is absolutely in cessary

Berrowing Programme for 1915-16.— In the first place we propose to continue the loan of £7 million from the Gold Standard Re serve and leave it still outstanding on the Sist March 1916. The Secretary of Stat. also intends to renew in 1915 16 the £7 million of intents to renew in 1915 to the firming of India hills which he has raised this year. This disposes of the temporary debt for the time being, but still leaves us the original full million. to Sad to find. We propose to obtain £3 million (4) erores) of this amount in India. Is addition to the funda which we thus find in India, it is the Secretary of State a intention to race £64 million by fresh borrowing in England either direct or through the agency of companies work ing State lines.

To sum up this examination of a complica ted and difficult position. I may briefly state that we propose a reduced but still considerable

me table

Reliway programme, a full standard of expenditure on Irrigation, and a minimum outlay on ments we contemplate renewing the temperary loans raised in the current year and finding a further £ 91 million by additional borrowings, whether permanent or temporary in England or in India. We thus put ourselves in a post tion to finance all requirements with which as far as we can at present see we are likely to be confronted in the coming year while at the same time providing for the maintenance of an adequate closing balance

These decisions are set out statistically in the following table -

	Outlay	
	(In Millions	of £)
Imperial deficit	(=	2 8
Provincial dencit		10
Capital outlay		
Railways	9.6	
Irrigation	1	
Delhi	3	
	<del></del>	9 4
Discharge of dobt		10
Univaded debt		2
	Total	14 4
Add-Discharge of	temporary debt rais-	
ed in 1914	15	14 0
	Grand Total	28 4
	GIZIG TOPAL	40 *
	(In Millions	of R \
	Assets.	0, 4.
From belances	1144	4.5
Rupee borrowing		80
Sterling borrowing		6.5
Famine Insurance	mosmelianeous	
lterns		4
	Total	14 4
Addin Renewal of to	mporary debt raised	
in 1414-16	mporal, acre insta	14 0
22 101140	Grand Total	29 4
	Grand Local	28 4

Bullways — This is a question which properly belongs to the railway heading (q:r) but inasmuch as sure: the disappearance of the profits from the option trade with Chaos the railway profits have come bulk largely in the budget, they may be inducted here. The manneal aspect the railway property of the Government of India for the past five years is indicated in the follow

			(,	In thousand	of£)
	1911 12	1912-18.	1913 14	1914-15	1915-16
Capital at charge at end of each year Net working profit from railways ex	331 247	340 103	351 302	361,756	368 513
chuding interest charges	15 813	17 272	17 610	15 102	14,774
Percentage of het working profit to capital outlay  Not working profit from rallways after	4 77	5 08	5 01	4 18	4 01
meeting interest charges	3,788	4,803	4,790	1 914	1 179
Percentage to capital outlay of net profits siter meeting interest charges		141	1 36	<b>5</b> 8	22

The disadvantage of the ratiway head is that it still further makes the finances of India degend-is on the character of the suspecton. Railway profits entirely hings on trade, and this singes on a patched, whereas the option surplus was largely independent of the character of the messages, Raylensions.—The Indian Budget (Gasette of Ja Lie), March Stis, 1935. See the admin struction and Progress (Rascolling) By Streether, Legis, its admin struction and Progress (Rascolling) By Streether,

The details of the budget are set out in the following table. As the manner in which the great heads of income like hand revenue railways, irrigation and outsoms are regiond in contribed in separate articles (q v ) they need not detain us here

REVENUE	Accounts, 1918 1914	Revised Retimate, 1914 1915	Budget Betimete, 1915 1916.
Principal Hearls of Revenue-		£	£
Land Revenue	21 391 575	21 24B 000	22,819 600
Oblam	1 624 878	1 556 100	1 798,000
Sait	3 446 306	8 497 800	8,845,100
Stampt	5 \$18 293	5 031 200	5 .07 100
Excise Customs	6 5 6 4 8 6 0 7 5 6 8 2 2 0	6 76 1900 6 819,500	6 790,860 5 9+8,000
Other Heads	5 490 175	5 150 400	6 161 000
Total Principal Heads	68 728 746	51 754 000	52,221, 190
Interest	1 359 119	1,008 300	1 067 100
Post and Telegraphs	8 6 38, 519	3,519 300	8,579,200
Mint	8 59 8 41	5~,900	71,300
Receipts by Civil Departments	1,406 286	1,48 4 500	1,534 000
Historianeous	772 570 17 825 834	769,600 1 15 268 800 {	383,200 15 029,300
Railways Net Receipts	4 713 159	4718300	1,796 800
Other Public Works	298 640	266 400	256 100
Military Receipts	1 363 652	1 315 700	1 220 300
Total Revenue Deficit	85,207 170	80,156 300 2,741 600	80 346 900 2 770 800
Total	85 207 175	82,897 900	88,117,200
EXPENDITURE			
Direct Demands on the Revenues	9 2 4 597	9 018 600	9 539,800
Interest	1 515 653	1 480 900	1 465 586
Post and Telegraphs	3 2,2 984	8 290 100	8,294,400
Mint	132 (30	139 400	102,000
Salaries and Expenses of Civil Departments	17 934 199	18 890 00	19,130,100
Hiscellaneous Civil Charges Famine Relief and Insurance Rallways Interest and Miscellaneous	5 408 804 1 000 000	5 392 500 1 000 000	6 108 400 1 000,000
Charges	12 838 101	18 354 700	18 850 000
Irrigation	3 531 867	3 729 <b>0</b> 00	8 650,800
Other Public Works	7 010 033	7 016,200	5 814 900
Military Services	21 63 765	21 90_ 400	\$1,210,860
Toyal Expenditure Imperial and Provincial And Add—Provincial Surplesses that is portion	83 17~ 638	85 114 500	84 179,800
of allotments to Provincial Govern ments not up at by them in the year.	825 <b>6</b> 92	ļ	
Bedact Proviscial Deficits, that is portion of Provincial Expenditure defrayed			
from Provincial Balances	608,578	2,216 600	1 062,600
TOTAL EXPENDITURE CHARGED TO REVENUE SURPLUS	82 994 752 2 312 423	82 897 500	88,117 200
Total,	85 207 175	82 897 900	<b>63 117,±00</b>

## THE LAND REVENUE

The principle underlying the Land Revenue exption may be taken to this statement of system in India has operated from time immediate case. It serves, however as a substantially mortial. It may be confined from time immediate description of the relation between the Government is the supreme haddord and the Government and the cultivator The life revenue derived from the least is equivalent former gives protection and legal security. The rent, On strictly theoretical grounds, or latter pays for it according to the value of his

ment in india-Permanont and Temporary Under the former the amount of revenue has been fixed in perpetuity and is payable by the landlord as distinguished from the actual culti vator The Permanent Settlement was intro-duced into India by Lord Cornwallis at the close of the eighteenth century. It had the effect intended of converting a number of large revenue farmers in Rengal into landfords occupying a similar status to that of landformers in Europe. The actual cultivators became the tenants of the landlords. While the latte became solely responsible for the payment o

### Temporary Settlements.

Risewhere the system of Temporary Settle ments is in operation. At Intervals of thirty years more or less the land in a given district is subjected to a the high economic survey on the basis of the trigonometrical and topograthe basis of the Organization and topoco-phe surveys carried out by the Survey Depart ment of the Government of Inlia Lack village area, wherever the Temporary Settle when I is in voque has been carefully mapped property boun laries ac urately delineated and records of rights made and preserved. Under the P-rmanent Settlement in Bengal the occupant does not enjoy there advantages. The duty of assessing the revenue of a district bentrusted to Settlement Officers members of the lodding Civil Service recently described for this work. The dudes of a Settlement Officer members of the lodding Civil Service recently described for this work. The dudes of a Settlement of the settlement of the settlement of the settlement of the settlement in Bengal Government deriver rather feeving a little at 1911. He has to determine the amount of the Government demand and to such as the control of all entiring rights and are possible to the land. He has a staff of expellenced substitutes, almost all of whom a responsibilities in the land. He has a staff of expellenced substitutes, almost all of whom a recommendation of the country, and the settlement in Bengal Government deriver rather less than £3 000 000. From a total rental estimated at \$1,2000 000. Under Temporary stitlements 50 per cent. of the rental in the expellenced with a settlement in the settlement in Bengal Government deriver rather less than £3 000 000. Once Temporary of Zemmeder is and any be recarded as sirtfally a maximum demand in some parts are the proportion of onethe Permanent Settlement in Bengal the occu season ate proposed by him require the sanction

bolding. The official term for the method lord pays on a rental assessment. In the case by which the Land Revenue is determined to of the former however, there are two kinds of settle-of Ryotsean holdings—those in which each of Richestra holdings—those in which each individual occupant holds directly from Gov crament and those in which the land is held by village communities the heads of the village being responsible for the payment of revenue on the whole village area. This latter system prevails in the North, in Madras, Bombay Burma and Assam ryotwari tenure is on an individual basis, and the Government stars into a separate agreement with every nters into a separate agreement with every lingle occupant. The base of assessment on lingle occupant. The basis of assessment on all classes of holdings is now more favourable to the cultivator than it used to be. Formerly what was believed to be a fair average sum and revenue the form r tost the advantage of holding from the State This system had previous interest and the system had previous interest and the system at the actual rield at the considered so that the cultivator gets certain districts of Madras. his holding subsequently brought about ofther by his own enterprise or by uncarned incre-ment. The Government bowever may at a new settlement re-classify a holding so as to secure for itself a fair share in an increment that may have resulted from public works in the vicinity such as canals and railways, or from a general enhancement of values. But the principle that improvements effected by private enterprise shall be exempt from assessment is now accepted by the Government and provided for in definite rules

### Incidence of the Revenue.

expellenced subordinates, almost all of whom the first subordinates almost all of whom the settlern is controlled to the first subordinate and only rarely is the proportion of one of the district assigned to him is a work which form the required several years of constant work. The establishment of agricultural departments and other reforms have however led to much implification of the Settlement of the settlement of the proceedings and to much greate and to make a subordinate and other reforms the subordinate and the settlement of the settlement of the settlement of the inclidence of the revenue charge and to the settlements. The settlement of the settlements are greatly about we've years ago the fact which the inclidence of the revenue charge the settlement of the settlements. to the supervision of superior officers the as socially signed memorial to fix one-fifth of the sessing the proposed by him require the sanction of the Government before they become finally binding, and hi in ticial declarons may be reviewed by the Civil Courts. It is the duty of the artitement officer to make a record of the artitement officer to make a record of every right which may form the subject to the time that the subject of the courts of of the c of the artitement officer to make a record of every right which may form the subject of further affecting the interest of the State or of the people. The intention is to atter ordinand but to maintain and place to record that which exists

The Two Tenures.

In the down grade This Resolution to gether with the statements of Provincial Government. The Two Tenares. The Two Tenares. The Two Tenares of Provincial Control of Two Tenares of Provincial Control of Two Tenares of Provincial Control of Two Clares—penant-holdines as a volume it is still the authoritative exponent and tenares. Broadly speaking, the difference Revenue Policy of the Government of India. Satisfies the two in a facal sense is that in Eyot in a sortes of propositions claimed to be exact tracte the rye or cultivator pays the tablished by this Resolution the following revenue direct in Esminderi tracts the land points are noted—(1) In Esmissiani tracts progressive moderation is the key-note of the where under the Permanent Settlement (in Government's policy and the standard of 50 the words of the Resolution quoted above) per cent. of the assets is more often departed so far from being generously treated by the from on the adde of deficiency they are the sound of t from on the side of debilency than excess (2) in the same areas the State does not he deate. to interfere by legislation to protect the inter ests of the tenante against oppression at the ests of the tenante against oppression at the hands of the landfords (8) in Ryotson tractithe policy of long term settlements is being extended and the proceedings in connection with new settlements simplified and cheapened (4) local taxation (of isnel) as a whole is neither immoderate nor burdunsome (over-assessment is not as alleged a general or widespread source of poverty and it cannot a state of the process of the control of the con fairly be regarded as a contributory cause of famine. At the same time the Government (s) large enhancements of revenue when they (a) targe emancements of revenue when they cocur to be imposed progressively and gradually and not per salium. (b) greater elasticity in revenue collection suspensions and remissions being allowed according to seasonal variations and the circumstances of the people (c) a more general resort to reduction of assessments in cases of local deterioration

### Protection of the Tenants.

In regard to the second of the five proposi tions noted above various Acts have been passed from time to time to protect the hi terests of tenants against landlords and also to give greater accurity to the latter in poeter aion of their holdings. The Oudh Tenancy Act of 1886 placed important checks on en hancement of rent and eviction and in 1900 an Act was passed enabling a landowner to entail the whole or a portion of his estate and to place it beyond the danger of allenation by to piace it beyond the danger of allenation by his heirs. The Punjab Land Allenation Act passed at the instance of Lord Curkon em-bodied the principle that it is the duty of a Government which derives such considerable proportion of its revenue from the large to classes. This Act greatly restricted the cultivation of the cultivator by prohibiting the allenation of his hand in payment of debt. It had the effect of arresting the process by which the Punjab peasantry were becoming the economic series of money lenders. A good deal of legis. lation affecting land tenure has been passed millan & Co. 1910) and the Annual Adminis from time to time in other provinces and it tratton lesports of the Respective Provincial has been called for more than once in Bengal. Governments

Zemindars the Bengal cultivator was rack rented impoverished and oppressed

Government and Cultivator While the Government thus interferes be of the latter its own attitude towards the cultivator is one of generosity Mention has already been made of the great advantage to the agricultural classes generally of the elahorate systems of Land Survey and Records of Rights carried out and maintained by Gov remment. In the Administration Report of Bombay for 1911 12 it is stated — The survey Department has coet the State from first to last many lakes of rupees. But the outlay has been repaid over and over again The extensions of cultivation which have oc curred (by allowing cultivators to abandon unprofitable lands) have thus been profitable to the State no less than to the individual whereas under a Zemundari or kindred system the State would have gained nothing, however much cultivation had extended throughout the whole of 30 years leaves. On the other hand the system is of advantage to the roots in reducing settlement operations to a mini mum of time and procedure. In the collec-tion of revenue the Government consistently pursues a generous policy. In times of distress suspensions and remissions are freely

tress steparasum and remissions are nearly granted after proper inquiry.

The amount of gross revenue raised on the land is estimated in 1915 16 at £2 049 500 out of a total from all sources in the same year of £80 346 900 This compares very favourably with the ±34 000 000 of land revenue recorded as having been raised annually from a smaller unpire by Aurangaebe

The literature of the subject is considerable The following hould be consulted by readers who require fuller information — fand Revenue Policy of the Indian Government " 1902 (Superir tendent of Government Printing) Balen Powell's Land Systems of British Land Systems of British in Stracher's India, its Haven could land systems to Lita Sit John Stracter's In Administration and Progress 1911 lan & Co) M Joseph Challiev trative Problems of Briti h India (Macmil 4. Juninus

### EXCISE.

was a source of revenue

The forms of intoxicating liquor chiefly con-The toring of infoxicating liquor chieff consumed are country spirit fermented pain jules the combined right of manufacture and sale at
beer made from grain country brands of rum
a special shop was annually granted. This
brandy, etc., locally manufactured mad beer journe was a kind of control, but it only coubled
and imported wine, beer and apirits. Coun
fry spirit is the main source of revenue, except on the liquor traffic as a whole, by means of
in the Madras Presidency, and yields about wend fees. It did not enable Government to

The Exclase revenue in British India is derivative-thirds of the total receipts from liquous The Excess revenue in Strike India is derived to the control of th minorization liquors as one result of British rule intration either an uncontrolled Out Still There is, however abundant evidence to show System or in some cases a crude Farming System that in pre British days the drinking of a pint and the first steps to bring these systems under thous liquors was commonly practised and control were the limitation of the number of shops in the area farmed, and the establishment of an improved Out Still System under which

There were tribes of aborigine who regarded the private boines as a long established right East private home as a long established right and who believed that liquor poured as libations to their god should be such as had been bands by their own hands. The introduction of any system amongst those peoples had to be worked very cautionsly Gradually as the Administration began to be consultated the numerous native potentiles scattered all ever the country under the crude arrangements them to force began to be collected into Comthen in force began to be collected into Cen tral Government enclosures called Distille rice, thus enabling Government to Derfect its control by nerrowing the limits of supervision and to regularize its taxation by imposing a and to regularize its taxation by imposing a head duty and Re 0 10 0 from vend fees The direct still head duty on every gallon issued average consumption per 1 000 of the population ments it has also been possible to regulate and supervise thoroughly the manufacture it is a server Bengal to 173 gallons in the Bombay and supervise thoroughly the manufacture to the learning the Distillery by means of a system of called toddy is used as a drink either fresh or after termentation. In Madas and Bombay proved distribution and vend arrangements.

#### Various Systems.

The Out-Still System may be taken to in clude all systems prior in order of development the imposition of Still head duty Briefly stated the stages of development have been-First farms of large tracts Second farms of smaller areas Third farms of the combin ed right to manufacture and sell at particular ces without any exclusive privilege over a places without any excutave privilege over a definite area Fourth farms of similar right subject to control of means and times for dis-tilling and the like. The Provincial Govern-ments have had to deal with the subject in different ways suited to local conditions, and so the order of development from the lower sorms of systems to the higher has not been under a license always everywhere identical in details. Yet Drugs.—The narcotic products of the bemp is its essence and main scatures the Excise plant consumed in India fall under three main Ladis has progressed on midorm lines, the key tops of the curilyated female being plant. note lying in attempts, where it has not been charas or the reshous matter which forms an possible to work with the fixed duty system active dring when collected separately and in its aimplest forms, to combine the farming bhang or the dried leaves of the hemp plant in its simplest forms, to combine the farming bhang or the dried leaves of the hemp plant and flared duty writers with the robject of second whicher make or female calityated or uncultuing that every gallon of spirit should bear a certain amount of taxation. The Out Still System tem are restricted cultivation under supervision has in its turn been superseded by either the torage in Bonded Warehouse payment of a Free-supply system or the District Monopoly quantitative duty before leave retail sale under system. The Free-supply system is one of licenses and restriction on private possession less tompetition among the licensed distill Licenses to retail all torms of hemp drugs are less in respect of manufacture. The right of resid is separately disposed of. The District bure and sale in a district is lessed to a farmer my and muc in a distinct is leased to a larguer method to a certain amount of minimum still that duty revenue in the monopoly area being manufacted to the State during the term of

products the taration accurately on the still dely principle nor to insist upon a stant of spirit for supply to a district is disposed of spirit for supply to a district is disposed of the principle of an account of control could not at first be complete. There were tables of shorigines who regarded in the contract and the right of vend is separately strategies of making their own liquor in prevales over the greater portion of British India. The other significant reforms have been the private homes as a long established right. The other significant reforms have been the revision of the Provincial Exclass Laws and regrilations and the conditions of manufacture vend, storage and transport, as improvement in the quality of the spirit an improved system of disposal of vend licences, reductions and re-distributions of shops under the guidance and control of local Advisory Committees.

and gradual enhancement of taxation with a view to checking consumption.

The average incidence of taxation per proof gallon of distillers shift amounted in 1911-12 to Rs. 5-2-6. Rs. 4 8-8 was derived from still head duty and Re 0 10 0 from wend fees

or after fermentation. In Madras and Bombay the revenue is obtained from a fixed fee on every tree from which it is intended to draw the liquor In Bengal and Burms the sale of shop licenses is the sole form of taxation Country brands of rum and so-tailed brandies and whisties, are distilled from grape juice etc. The mann facture is carried out in private distilleries in various parts of india. A number of breweries has been established mostly in the hills, for the manufacture of a light beer for European and Eurasian consumption. The uniform fee of 3 annes per gallon is levied all over India at the time of lesue. is the sole form of taxation Country brands

Foreign liquor is subject to an import duty at the tariff rates, the most important of which is R<sub>4</sub> 9-6-0 per proof gallon on spirit and 3 annua per gallon on beet. It can only be sold

usually sold by anction

Opion -Opium is consumed in all provin subscriptly system on the other hand is one in res in India. The drug is commonly taken which the combined monopoly of manufac in the form of pills but in some places chiefly on sucial and ceremonial occasions it is drunk dissolved in water Opium smoking also prevails in the City of Bombay and other large towns. The general practice is to sell opium from the Government Treasury, or a Cautral Warehouse to Heessed vendors. The right of retail

The sait revenue was inherited by the British both for Bengal and Burms, is imported from Government from Native rule, together with a Liverpool Germany Aden, Bousbay and Maceus miscellaneous transit dues. These transit dues Broadly one-half of the indigenous salt is mangainment transit dues. These trainst dues in the said duty consolidated manufactured by Government Agarry and the and raised. There are four great sources of remainder under license and excise systems, supply rock sait from the Sait range and in the Punjab and Relaputana the sait manufactured by the Rock sait from the Sait range and in the Punjab and Relaputana the sait manufacturers are under the control of the Northern

The Salt garge mines contains an inexpine relative property of the supply. They are worked in chambers salt throughout India, except from the Portin excepted in salt strata, some of which guess territories of Goa and Damaum, on the are 250 feet long, 45 feet wide and 200 fronters of which patrol lines are established to feet high. The Rajputana supply chiefly comes from the Sambhar Lake where brine is extracted and evaporated by solar heat. In the Rajputana supply chiefly comes from 1888 1963 the duty on salt was Ra. 25 and evaporated by solar lost to Ra 2 in 1905 to Rs 1-8 and in 1907 to Re. 1 heat and the brine is also evaporated by solar to Rajputana and the conduct is known as Barasaral at which floure it now stands. The successive

igner the Samber Lake in Rajputans, sait brine lateforms are under the control of the Northeres the Sambhar Lake in Rajputans, sait brine India Sait Department a branch of the Finance condensed on the borders of the lesser Raon of Department. In Madras and Bounbay Madras manufactories are under the supervision of and at the mouth of the Indus

The Sait Range mines contains an inexhaus

Native States permit of the tree inovement of the tree inovement of the control of the tree inovements of the supply. They are worked in chambers sait throughout India, except from the Posta.

or unten the brine is also evaporated by solar to Bs 2 in 1905 to Bs 1-8 and in 1907 to Bs 1. In Bombay and Madras seas water in reductions in duty have led to a largely increased let into shallow pans on the seas-coast and eva consumption the figures rasing by 25 per cents. In Bought the damp citinate sold between 1903-1908 To illustrate the growth of throughout ladia in Bougat the damp citinate consumption in 1902-08 With a tax of Es. 2-80 from the Ganges and the Brahmaputra into 1915-16 with a duty of Be 1 the estimated sea sait difficult and the bulk of the supply

### CUSTOMS.

There is a general import duty of five per cent, as general import duty on rice, at the rate of three aerosting to the financial ordinon of 82; pounds. The export is principally from Burma.

The import duties have varied from time to the country. Before the Mutiny they were the country. Before the Mutiny they were five per cent, in the days of financial stringency which followed they were raised to 10 and in for this duty the subordinates are restricted some cases 20 per cent. In 1875 they were the Local Governments. The senior Collectors which followed they were raised to 10 and in for this duty the subordinates are restricted some cases 20 per cent. In 1875 they were financial stringency in India and in England (Castems Tarriff s. w.) reduced to five per cent but the opinions of Free Traders and the agitation of Jancashire manufacturers who felt the competition of the Indian Mills induced a movement which led to the abolition of all customs dues in 1882 the continued fall in exchange compelled the Government of India to look for fresh sources of fittle more than 94 d in the pound on all incomes revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were revonue and in 1804 hye per cent duties were rev Government of India to look for fresh sources of little more than 94 d in the pound on all laconass revenue and in 1894 five per cent duties were reported warms and cotton fabries being excluding the hundred rapees and upwards. Many imposed warms and cotton fabries being excluding the system and the present schedule was concluded. Continued financial stringency brought the system and the present schedule was concluded and after various expedients the demands of tax on all incomes derived from sources other and the present schedule was concluded and after various expedients the demands of tax on all incomes derived from sources other laneashire were satisfied by a general duty of that agriculture which were exempted. On 24 per cent on all woven goods—an import incomes of 2,000 rapees and upwards it fall duty on goods by sea, an excise duty on goods are not excised. These excise duties of the fall in the pound on incomes between 500 and hand looms are exciteded. These excise duties of the fall in the pound on incomes between 500 and hand looms are exciteded. These excise duties 2009 rapees at the rate of four pies in the rapes are intensity unpopular in Indias for reasons or about 5 din the pound. In Masch 1903 set out in the special article dealing with the subject. In 1910 It in order to meet the deficit 500 to 1000 rapees. The tax is paid by about threatened by the loss of the revenue on opinm 380 000 people, and although it is unpopular exported to thina, the silver duty was raised oblegy because it was nominally only teamper from 5 per cent. to 4d an ounce, and higher artily imposed and because it halls most beavery duties levied on petroleum, tubesco, whose, on those with fixed incomes, there is no likely per cent.

The Indian fiscal system consists of a The principal exemptions from the tariff moderate tariff for revenue purposes only are food grains, machinery ralway material. There is a general import duty of five per cent and coal Iron and steel pay a nominal disty

## THE DERT OF INDIA.

To understand the debt of India it must; be remembered that the Government of Indis is always a borrower The country still needs a wast capitalexpenditure both on Railways and irrigation indeed the expenditure on railways is always conditioned not by the needs of the is awaya conditioned not by the needs of the country but by the ability of the mark the supply capital—a supply which is always unequal to the demand. In the case of irrigation the supply of capital hand inte years ben equal to the amount which could be spint great irrigation schemes require long and claborate inv stigation and when the investigations are complete the actual construction of the works is complete the actual constituted in the works, governed by the Libour supply which is increasingly expensive and rarrly equal to the domand. Three conditions make India a constant borrower and she raises every year as much money as the Indian and London money markets can supply The whole of this money is spent on productive works. The Indian paying allint r at charges and certain annulifier for the redemption of capital, a surplus which varies with the character of the season. The irrigation works return a profit of over five per cent Whilst therefore India is a constant borrower she borrows only for expenditure or productive works. Her finance is even more conservative than this for in most years a sum is set apart from the revenue surplus for expenditure on capital works. Through the operation of this policy the unproductive debt of India has been reduced to negligible propor tions. It has been estimated by connectrat financiers that if a fair balance shet were struck the balance would be on the right side

When the trading charter of the Rast India Company expired in 1835 the ruper debt was Dompany expected in 1835 the ruper decr was 1848 382 95 millions. Fifteen years later in 1850-51 the debt reached Rs 453 85 millions and it stood at almost exactly that sum in the year preceding the muthay of 1857. That con weision caused a large increase in the rupes debt which stood at Rs. 635 55 millions in 1852-60 Bs. 1,00° 48 millions in 1888-99 and to Bs. 1 052 8 millions in 1893-94 A three per cent loan was raised in July 1896 and the debt to stood at Re 1 082 12 millions at the end of 1898-97 and increased to Rs 1 191 99 millions in 1908-04 to Ra. I 2-8 75 millions in 1903-06 to Ra. I 286 67 millions in 1909 10 and to Be. 1,997 & millions in 1913 12.

was rapid after that. As in India, the rate of interest on the sterling dobt has been gradually reduced from 4 44 and 5 per cent, to \$2 \$ and \$3 \$ per cent respectively. At the end of 1910-11 proportions of the debt held at these rates are \$11 892,207 at \$2\$ per cent \$26 724 580 (uncluding 3 per cent. India stock of the nominal value of \$3 000 000 issued in August 1900 52 009,500 issued in 1901-02 £1 500 000 issued in 1903-04 £2,500,000 issued in 1904-05 £12 089 146 issued in 1905 00 lasted in 1906 00 000 issued in 1907-07 at \$ per cent. and £2 000 000 issued in 1905-07) at 8 per cent.
and £2 000 000 issued in 1905-07) at 8 per cent.
and £55 511 748 at 8 per cent. In May 1907
a 84 per cent. sterling loan of £3 500 000 was
raised and in January 1908 a further 34 per cent. loan of £5 000 000 was raised towards providing loan of \$5 000 000 was raised towards providing for railway capital expenditure of 1908-99 and for the discharge of certain Bombay Baroda and Central India Railway debentures Bimilarly in February 1909 a loan of £7 500 000 and in January 1910 s further loan of £7 500 000 were issued at the same rate of interest. In October 1910 34 per cent. India Bonds for \$4 000 000 were issued for the discharge of the Madras and Indian Midland Railway debentures and in March 1011 1000 1000. and in March 1911 a new 3; per cent sterling toan of £3,500 000 was issued to provide funds for capital expenditure in 1911 12

### Rallway Expenditure.

A large proportion both of the sterling and of the rupee debt was incurred in connection with the construction of railways and other public works. Considerable additions to the rupes and sterling debt were made in the two years 1896-97 and 1897 98 in consequence of famine, plague war and the prosecution of railway extension and to the sterling debt in 1900 and subsequent years for the purchase of the G I P Railway, the discharge of its debentures and advances of indian Railway Companies. In addition to the loans raised during 1907-08 the Secretary of State Incurred liability in respect of £2,144 800 debentures of the Madras Railway Company on the purchase of the undertaking on the 81st. December 1907 At the end of 1912-13 the total registered debt in India and England was total registered dept in India and England was classified as follows—Rashways £211 843,819 (it gatiem £ 75 2,000 ordicary £24 8 8 777 rew capital at De hi £119 886 interest rashways £71172,544 irrigat on £1 2-2,513 ordinary £1 169 047 other obligations £841 488.

### Interest.

The interest on the rupes debt was at the rate of six per cent, in 1822, and the debt bearing this rate was not finally paid off until 1858 59
Meanwhile the Government borrowed, from 1828
until 1852 53 at 8ve per cent and from 1824
(but in a small way until 1835) at four per cent The bulk of the five per cent. debt was converted to four per cent in 1854, but the shock to the credit of the State caused by the mutiny neces-A four per cent terminable loan of Ra. 4] stated more borrowing at the higher rate of severa (\$ 8 million) was i sued in 1915. The present dimensions of the debt are given below ander the head of int rest."

Starting Debt.

The interest-bearing sterling debt was very small until the matthy year, but the increase of interest was largely increased in 1871 by the conversion of the 5 per cent loan By 1878-79 insued at 4 per cent. and was redeemable in 1928 The debt provided for in the Budget of Rs. 013 88 millions at 4 per cent. The 44 per cent. Budget of 1015-16 is as follows —

Stelling £ 182,657,257 1833 save for a sum of Rs. 10 millions helng a loan from the Maharaja Holkar on account of the Indore State Railway which is not con vertible until about 1970 In the same year a vertible until about 1970. In the same year a small loan of Re 35 5 millions was raised at 31 per cent, and in the following year the bulk of the 4 per cent loans was converted to the rate of 84 per cent in 1896 97 a new loan of Rs 40 millions was raised at 3 per cent. On the 4th millions was raised at 3 per cent. On the 4th July 1900 a loan of Rs 30 millions was raised at 31 per cent. and this was followed by other loans, at the same rate of interest,

Sterling .	£ 182,657,257
Rurce—	
4 per cent.	Ra 3 07 00 000
81 per cent.	1 42,84,R4 400
3 per cent	8,17 52 600
Other debt	1,(0 71 890
Temporary Loans	11 00 00 000
Saving Bank Balances	21 32 14 898

The Budge of 1915 16 provided for an Ex ans, at the same rate of interest.

p rd(ture on interest of Rs 580,00000
In 1915 in order to meet the higher price of (± 3,926 70)) in In ha and £8 092,300 in money caused by the war the 41 crore loan was England, a total of £10 019 000

### Absorption of Gold in India

					(In la	the of Re	рем)
		1909-10 	1910 11	1911 12	1912 13.	1919 14	1914-15.
-		¦_	! 	-	_		1
1	Net across addition to the took of the country	24 00	27 10	40 ±0	5° 90	27 00	11 00
2	Progressive total of additions to the tock	2 18 00	   2,43 00	ຸ2 83 າກ	3 21 NU	J.48 00	3 59 00
3	Held in mints and Government Tra auries and Currency and Gold Standard Reserve	900	9 00	24 00	30 00	22,50	15 50
4	Net annual variation in [tem 3	9 00		13 00	6 00	<b>—7 50</b>	7 00
)	Net progressive absorption	20-00	2 84 00	2 59 50	2,91 00	3 25 50	3 43 50
8	Absorption of the year	1,00	27 00	2.50	31 .0	34 .0	18 00

It m 1 shows the amount of gold produced in India plus the net imports (1.6 imports wires exports). In 1914 15 the gold produced was R. 3.51 laking plus net imports Re. 7.65 Rs. 11.00 lakins in round figures. Item 2 shows the progressive total of the Browes in item 1 to the end of each year. Total at end of 1913-14 Rs. 14800 lakins plus figure [r. 1914-15 Rs. 11.00 lakins 350,00 lakins at the end of 1914-15. Item 3 shows the reserve hild in India plus the amount of gold in the minute and in the in each year. Item 4 shows the amount varies on in the actual amount held in the minute and in the reserves in India. Amount hild in 1914-15 Rs. 1.5 50 lakins minute that held in 1913-14 Rs. 25 50 lakins its equal to—Rs. 7.00 lakins shown against this term in 1914-15. Item 5 shows a the difference between item 2. (notherwise) and 2.1 cannot be held in the winter steel. the difference between it m 2 (progressive total) and 3 (amounts held in the mints etc) Rs 2,59 00 lakes minus Rs 15 50 lakes—Rs 3 43 50 lakes during 1914 '5 Item 6 shows the difference between two successive figures in item 5 Rs 3 43,50 in the menus Re 3 25 50 laking Rs 18,00 laking 1914 15, or in other words the difference between item 1 famual addition to the stocks) and tem 4 (net variation in item 3) Rs. 11 00 laking swarms (—Rs. 700 lakha), i.e., Rs 18 00 [akha is the not absorption of the year

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-	Begistored debt in India	Begistered debt in	Interest payable	yable	Amount borrowed and paid off each year (Borrowed + paid off-)	wed and paid year paid off—)	Proportion of the regularization rupes debt held to
ļ					In Indle	In England	London on 31st March,
!	a a	1 ca	, A	- sa	ā	C47	2
	27 24 77 690	6 762,889	1 68 15,400	263 247	-20 73 970	100 268	
	20 47 65 040	1 756 692	1 86 37 000	50 856	+115 80 400	28	
	68 44 54 100	3 020 592	8 88 34 460	1 249 892	+1.00 12 730	138 000	
	63 48,08 450	82 116 217	2,88 82 440	1,457 874	090 0+ 3-	+3 619 300	
	030 17 70 59	26 332 517	25.89 06 180	1 200 021		252 200	(g) 
	68 36 66 840	20 148 017	2 88 00 400	1,253 165	-\$ 71 480	136 500	
	62.97 81.230	26 967 817	8.87 13 200	1 402 540	+30 73 450	200 200	
	03 7A 50 020	20 718 417	£ 01 57 860	1 448 876	+78 65 790	1 58 ,00	
	63 41,08 910	31 218 917	2,89 87.270	1 449 916	\$5,43 110	1,500 500	15 58,06,030
	04 RO 06 570	37 627 617	8 01 56.810	1 726 263	12 19 19 19		
	67 96 69 420	89 012 617	3 98 08 300	1 791 618	+1 16 92 850	+1 \$85 000	080 86 97 11
	06 45,83 600	39 012 617	002'08'89'80'20'0	1 831 467	1 51 05 730	100	12.04.71.05
	002 40.00	48 597 088	3 03 35 820	8 165 \$64	12 22 28 28 28 28 28 28 28 28 28 28 28 28	21 62 24	14.00
	72,77 29,830	40 797 033	8 15,20 180	2 212 562	053 OS 36 2+	+1 She,000	15,45 7,480
	21 92 11,260	65 307 033	3 10 98 710	2,496,271	039 86,58	15 600 000	14-21-01-40
	78 83 89 280	59 677 053	8.85 77 980	8 607 478 9 581 555		1.250,000	
	82,87,25 090	66,885 556	3 41 76 560	1 947 886	1 03 25,830	+0,826 (40	0.00
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	Registered debt in a	Begintered debt in Tondor	Interest payable	t) able	Amount borrowed at off each year (Borrowed + , paid	Amount borrowed and paid off each year (Borrowed + , paid off—)	Proportion of the registered rupes debt
	-	a contract			In Indla	In Enghad	London on 11st March.
	- ≥	ᅿ	Harrie Control	46	1	4	Į.
22.5	84 65 31 620	08 585 694	874.11.490	2 725 748	050 99 20 3+	+448 747	22.68 11.88
7	10	08 108,837	3 84 91 140	2 704 207	+2 50 26 180	478,857	22,08,75 180
98.	2.9 E.5	73 806 691	2 77 28 480	7,601 828	47 00 780	102,251	21,83,98,370
886-87	8	84,928 177	3 82 02 570	3 165 411	-5 03 460	+10 421 556	10,14,95,570
887-88	E 7	84 140 148	4 03 78 580	2 918,030	+ 2 43 62,280	80 88	80 81,88,870
	200	98 185 391	6.21.56 080	5 20 47 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.88 1.30	+3.158.781	25
100	3	104 409,208	4 17 51 110	3 524 370	1 46 200	6,215,817	26 73 12,950
24-149	82 69	104 404 143	4 17 15 000	3 802 340	98 33 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	+2 995 936	27 50,58 410
2000 1000	2 2	114 113 709	4 20 09 040	3 570 082 9 687 086	1 424 52 350	-720 376	25,93 28,610
201-05	2	116 005 826	8 61 09 140	4.825 323	12.00	1 892 034	
2	8 82	115 903 732	3 64 00 740	8,607,888	158 48 120	102 094	25 35,07 580
878-97	20	114 888 115	8 78 43 760	3,513,508	00% 10 % c+	-1,020 (199	24 06,66 690
867-68	99 69	123 274 680	8,87 11 060	3 940 776	+2 68 06 810	+8 891 447	21 50 87 080
60-100	1 12 65 (6 980	209 602 171	8 91,18 340	3 882 758	100 00 040	1083 685	21 44 12,330
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8	20 78 20 78	¥	92 22 97 7	4 282 744	33	158 653	16 81 55 234
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	3	183	4 61,66 110	6 053 672	1		20 49 10,635
-0-00 -0-00	50.00	53	4 69 10 197	280 018 9	9	8	14 43 46 433
<b>809-1</b> 0	84 83	≟	4 76,47 428	5 530 758	2	+9 182 548	15 21 10 988
910-11	전 연 명	8	4 81,24 302	6 668 417	8	+7 892 424	12,78 49 738
21-116	98	8	4,87,78 4bs	0,700 097	3	+488,868	11 78,03 638
\$1.V-16	200	1	5 R9 OO OOD	008.300			

# THE RUPEE DEBT

Return of the Interest Bearing Rupes Debt of the Government of India as at 81st August 1915.

In Thomands of Europees.

Particulars.	Date of Issue.	Conditions of Repayment.	Amount	Total.
Railway Loans— Maharaja Holkar 41 p c Maharaja Soindia 4 p c Nawab of Rampur 4 p c Special Loans—	(1870-77) (1892-93)	After 101 years Perpetual After one years notice for be given on or after 1st Dec 1917	10000 15000 4700	29700
Gwalior 1 p c 1987 Fourp c lerminable Loan.	(191 ა–1 6	By annual instalments of 12 lakhs. On or before 30th Novem 1er 1923 but not preceding 30th November 1920 with three months previous notice.	12200 (u) 462,3	12200 4627J
1 hree and Half per cent 1842–43 1846–55 Three and Half p c coupon 1866 Beduced 1879 1900–1	1st Feb 1843 30th June 1854 1st May 1865 16th Jan 1879 30th June 1930		294225 336107 5980 3797 38998 3972(0	1381902
189 <del>0-9</del> 7	1 22md July 1896	TOTAL	81258	81266 1551341

<sup>(</sup>a) Inclusive of 1273 representing Loan raised through Post Office during the month

# DISTRIBUTION OF RUPEE DEBT

	818500	541941	89681	1213	1561341
Railway Loans Special Loan 4 per cent. 34 per cent. 8 per cent.	29700 12200 1125 7 5288 20118	აშჩვ <sub>ა</sub> ნა990 <u>0</u> 46204	80732 <b>2949</b>	1213	29700 12200 462 (8 1381902 81266
	Indiana	Europeans	London	Universed	es above
<del>_</del>		tion in held by	Held in		Total
	671436	327937	950 1	362973	1480447
Rallway Loans bpecial Loan 4 per cent. 34 per cent 3 per cent.	ч↓1.41 бию-4 4°11	29700 12200 1451 2 2258 12400	6289 854 '8 635a	13210 337412 12351	29700 12200 5060 12 5170 7831
	Calcutta	Inland C	Madras.	Вошвау	Total India

### STERLING DERT

	Capital of Debt.			Annual Interest payable	
Debt Bearing Interest	Sist March 1914	31st March 1915	Rate %	31st March 1914	31st March 1915
India 34 per cent Stock India 3 per cent Stock India 24 per cent Stock India Bonds India Bonds	£ 91211186 66212384 1180633, 2500000	91137350 66028171 11689987 2000000 7000000	3} 3 91 31	£ 3192392 1986372 295158 87500	3189807 19 0845 292250 70000 { Not
East India Railway Debeuture Stock Eastern Bengal Ry Debeuture Stock Eouth India Ry Debeuture Stock	14°5850 846666 425000	1435650 348660 425000	41 4 41	64604 13947 19125	known ) 64604 18947 19125
G I P Raliway Debenture Stock Indian Midland Ry Debentures	2701450 407500	2701450 4075 0	31g	10808 14282	10 <b>805</b> 8 14263
Debt not bearing Interest— India 5 per cent. Stock India 4 per cent. Stock	177048173 9305 7279	183173774 9805 7279	-		
	16 584	16584		! !	
Total Debt and Annual Interest thereon on 31st March 1910	177064757	183190358		5781418	57528P

### INDIAN RAILWAY ANNUITIES

	31st March 1914	31st March 1915
East Indian Railway Annuity terminating in 1953 Interest in lieu of deferred annuity Bastern Bengal Railway Annuity terminating in 1947 Schodh Punjab & Delhi Railway Annuity terminating in 1908 G I P Railway Annuity terminating in 1948 Aladras Bailway Annuity terminating in 1956	£ 850578 262000 116551 371361 1264516 486381	er fruncs not
Total Indian Railway Annutles on 31st Murch 1914	3857847	(Jater ava

### THE INDIAN MINTS

The Wint in Calcutta dates from the end of The wint in University dates from the end of the 17th century. The present building, de signed by Major N. W. Forbes, was opened in 1841 the central portico being held to be a copy on half dimensions of the temple of Miurya at Athena. The Copper Must to the north-aut of the Silver Mint, was opened in

Mint Master Major A. L. C. McCormick, R. E.
Deputy Mint Master
Attack Houster Licot-Col. J. J. Bourke, L. S.
Deputy Asser, Master, Licat Col. J. T. C.
Hughes, L.A. F.C.S.
The Bombay Mint—The first Mint established in Bombay in 1670 was for the coinage of Mints.

"rupees, pies and bujraks, authority for its working being granted by letters patent. The crection of the present Mint was sanctioned by the East india tompany in 1823, and was designed by Major John Hawkins of the Bombay Engineers. The cost of construction was estimated at 38 lakhs.

Ment Master Major G H Willia M.v.o. R.B. Assessmant Ment Master Mr A E. B Gordon. Assey Master Lt.-Colonel J Lloyd Thomas Jones, I.M.S

Deputy Assay Master Capt, H J Wallis, La During the year 1914 1915 gold to the value of Rs. 2,83,63,850 was tendered at the two

The following statement shows the details of the silver coinage excouted for the Government of India in the two mints during 1914-18 -

		Calcutto	Bomb <b>sy</b>	Total
<del></del>	<del></del>	Value in Re	Valus en Re.	jaine in Re
Rapecs Hait Rapecs Quarter Rupecs Earth rupecs		1 25,00 000 8,99,946 5 68,469 7 36,450	54,71 858 4,51,664 5 24,118 7 42,841	1,80 71 858 11,51 610 10 92,562 14,78,291
-	Total	1 46 04,845	71 90 471	2,17 95 336
Total for 1	913 14	6,63,36 058	6 52,32 479	13 15 68 5 97

There was no columbe of rupees from purchased alliver during the year. The amount of practical alliver coined was also much less than in the preceding year owing to the existence of adequate stocks in treatures and depots and to a failing off in the demand for small coin gener aile

Michal coinede was confined to the Bombay British equivalents are Mint and consisted of 42,302,000 ana pices of the nominal value of Rs 26,47,000 against 48,320,000 pieces of the nominal value of Rs 28.95 000 coined in the Previous year

Bronze coinage which was as usual carried ort entirely at the Calcutta Mint consisted of pice half pice, and pice of the aggregate value of Ra 4,50,700 as compared with Rs 20 85,439 in the preceding y ar There was a large re-turn of single pice from circulation and this accounts for the failing off in the comage. In addition to the coinage work of the Covernment, of India Rs. 40 000 worth of conts and half cents. were calcol for the Coylon Government, and Rs. 3.125 worth of Copper amount caches for the Probrakotal Durbas

The Revenue and Expenditure of the two Mints (including interest on capital ords) and The denominations of currency noises to other pro forest charges) amounted to Revenue circulation are 5 10, 9 50 109 500 1,000, Rs. 3 56,284 and Expenditure, Rs. 19 65,878. and 21,000 rupees.

The Gold and Silver Assays made during the

	Cel	outia.	$B_{\sigma n}$	day.
<b>Year</b>	Gold	Silve	Gold.	Silver
1914-15	€"1	10 035	8,280	4,182
fbe In	dian de	nomina ti	ons wi	th their

= 1/12 panny 1 farthing Pice (3 pics) Anna (12 ples) 1 penny

Rupes (16 annas) 1 e 4d -A lakh (lac) is 100 000 rupses and a ozore is 100 lakhs

The equivalents of the rupes in various currencies are approximately as follows One supec = 1 66 france (France, Italy, Bel-

gium, &c > - 1 36 mark (Germany) = 1 6 krone (Austria Hungary). = 0 324 dollar (United States). - 0 65 ven (Japan)

# HISTORY OF THE COINAGE

The Indian mints were closed to the un the initial initial were crossed to the Ma satricted colungs of silver for the public from he 28th June 1883 and Act VIII of 1893 passed in that date, repealed Sections 19 to 2A of the ad silver coles of the Government of India. ntil 1897 when under arrangements made with rary

crore of rupees was coined and over 17 crores of rupees in the year ending the 31st March 1910, including the rupees issued in connection with the conversion of the currencles of Native adian Coinage Act of 1879 which provided for States. From the profit accruing to Govern he coinage at the mints for the public of gold ment on the coinage it was decided to constitute a separate fund called the Gold Branve Fund a statute tipe cause two took preserve sumpo-rary suctuations of exchange. The whole profit was invested in sterling sconfiles the nth 1897 when under arrangements made with ray fluctuations of exchange. The whole he Methy States of Bhopal and Kashuni, the profit was towested in sterling sconrities the arrency of those States was replaced by Gov amount rupees. The re-coinage of these proceeded through the two years 1897 and 1898 are though the two years 1897 and 1898. In 1899 there was no collage of coinage profits devoted to this fund, also repeats was necessary and it was begun in the state of the coinage profits devoted to this fund, are resembled to the state of the coinage profits devoted to this fund, are resembled to the coinage profits devoted to this fund, are resembled to the coinage profits devoted to this fund, are resembled to the fund. In the second the coinage profits devoted to this fund, are resembled to the fund. In the second the coinage profits devoted to this fund, are resembled to the fund. In the second the coinage profits devoted to this fund, are resembled to the fund. In the second the coinage profits devoted to the fund. In the second the coinage profits devoted to the fund. In the second the coinage profits devoted to this fund, are resembled to the fund. In the second the coinage profits devoted to this fund, are resembled to the fund. In the second the coinage profits devoted to this fund are represented to the fund. In the second the coinage profits devoted to the fund. In the fund, in the fund is the fund of the coinage profits devoted to the fund. In the fund, in the fund of the coinage profits devoted to the fund. In the fund is the fund of the coinage profits devoted to the fund. In the fund is the fund of the coinage profits devoted to the fund of the coinage profits are resembled to the fund of the coinage profits are resembled to the fund of the coinage profits of the coinage profits of the coinage profits are resembled to the fund o capital expenditure on rallways. The Gold Standard Reserve was called into action before the year 1907-06 was out Exchange turned against India, and in March 1908, the Government of India offered bills on the Secretary of mount of India concrete ours on the Secretary of State up to hair a fullion sterling, while the Herretary of State hold £1,000,000 Consols in order to meet such demands. During April to August further steeling bills were sold for a total amount of £8,059,000 On a representaugus mitner sewing ours were sold for a total amount of £8,059,000 On a represent-ation by the Government of India, the Secretary of State agreed to defer the application of coinage profits to railway construction until the sterling assets of the Unid Standard Beterve attachment to £25,000,000 On the orithreak of the war in August 1914 the Reserve was drawn upon to meet the demands for ster ling fromittaness, and Government offer to soil £1,000 000 of Bills weekly The extent of these rates is shown on pp. 191 192.

Gold.
Since 1870 there has been no coinage of double mohurs in India and the last coinage of sungle modure was in the year 1891 92

Act XXII of 1899 passed on the 15th Sep tember 1899 provided that gold colo (sovereign and half-sovereigns) shall be a legal sender in payment or on account at the rate of fifteen supece for one sovereign.

The weight and lineness of the allver coins Me -

_	FINE Silver, grains.	LLLOY grains	Total.
Rupee Half-rupee	165 824	15 74	180
Coarter topes or 4 sting piece Bighth of a rupes or	412	38	45
3-Azzia piòre	20}	11	221

One rupes = 165 grains of fine sliver One shilling 80.1 grains of fine silver One rupee = shillings 2 0489

### Copper and Brouse.

Copper coinage was introduced into the Bengal Presidency by Act XVII of 1885 and into the Madrae and Bombay Presidences by Act XXII of 1844

The weight of the copper come struck under Act XXIII of 1810 remained the same as it was

IN 1630 If ANS SE TOHOME -	Grains troy
Double pice, or half-anna	200
Pice or quarter anna	100
Half pire or one-eighth of an anes	50
Pie being one-third of a pice or twelth of an anna	

The weight and dimensions of bronze conse

24 10 (010),4	Standard weight in grains troy	Diameter jn milli metres.
Pice	75	25 4
Helf pice	37‡	21 16
Pic	<b>2</b> 6	17 45

#### Michol.

The Act of 1906 also provides for the columns of a nickel cond. It was directed that the nickel one-nama piece should thenceforth be coined at the Mint and Issue. The notification also prescribed the design of the coll, which has a waved edge with twelve scollops the greatest diameter of the coin being 21 millimetres and its least of the coin paint 21 minmeters and its least distincts 19 8 millimetres. The destrability of issuing a half anna nickel coin was considered by the Government of India in 1909 but after consultation with Local Governments it was decided not to take action in this direction until the people had become thoroughly lamillar with the present one anna coin.

# The Paper Currency.

and Madras were authorised to issue notes payable on demand, but the issue of the notes was practically limited to the three cities of Calcutta, Bombay and Madras. These Acts were repealed on the lat March 1862 by Act XIX of 1861 providing for the Issue of a paper currency through a Government Department. by means of rotes of the Government of India payable to hearer on demand. Since then no banks have been allowed to laste notes in India.

Act II of 1910 amended and consolidated the law on the subject By it a note of the value of five, ten, or fifty rupers, as well as a note of any other denominational value which the Governor other denominational value when the violence of General in Council max by notification in the Gassits of India, so specify was declared to be a universal currency note, that is legal tender throughout British India and encashable at any office of saue in British India the then existing sub-circles of Cawnpore, Lahore, Karachi and these constituted separate circles of issue in addition to Calcutta Madras Bombay and Rangoon At the same time, by a notification issued under the Act, the further issue of 20notes was discontinued. By another notification issued in 1911 under section 2 of the same Act a currency note of the denominational value of one hundred rupers was declared to be universal currency note

Act VII of 1911 raised the invested portion of the Currency Reserve from 12 crores to 14 crores with permission to make the additional invest ment in sterling securities if desired.

# Department of Paper Currency

The function of this department is to issue without any limits promisery notes (called currency notes) of the Government of India payable to the bearer on demand of the deno minations of Ra. 5 10 50 100 500 1000 and 10 000 the issue being made in exchange for rupees or half rupees or for gold com which is legal tender from any Paper Currency office or agency and for gold bullion and gold coin, which is not legal tender from circle offices on the regulation of the Comptroller General.

# Supply and issue of Currency Notes.

Currency notes are supplied by the Secretary of State through the Bank of England on an indent from the Head Commissioner The Head Commissioner or Commissioners supply Correspond Agents with all the notes required for the purposes of the Paper Currency Act. Every such note, other than a "universal note bears upon it the name of the place from which it is issued and every note is impressed with the aignature of the Head Commissioner or of a Commissioner or Deputy Commissioner

Under Acts VI of 1839 III of 1840 and IX of and (2) on the requisition of the Comptroller 1848, the Presidency Banks of Bengai, Bombay General, to all treasuries, in gold coin which is and Madras were authorized to issue notes not legal tender under the Colnage Act or gold not legal tender under the Coinage Act or good bullion at the rate of one Government rupes for 58344 grains troy of fine gold. Currency notes can also be issued against gold coin of builtion or after builtion or sterling securities held by the Secretary of State for India in Council.

#### Notes when legal tender

Every note is a legal tender in its own circle (except by Government at the office of issue) for the amount expressed in that note that is to say whenever a note forms the integral sum or a portion of any payment either to Government on account of a revenue or other claim, or to any body corporate or person in British India it is a legal tender Five, ten fifty and hundred rupes notes are legal tender throughout British India

Notes of higher denominations than five, ten fifty and hundred rupces are payable only at the office or offices of issue of the town from which they have been issued. In ordinary circumstances every Government treasury of which there are about 250 in British India, cashes or exchanges notes if it can do so without inconvenience and when this cannot be done conveniently for large sums small sums can generally be exchanged for travellers.

#### Deserva

The whole amount of currency notes in circu lation is secured by a reserve of gold and silver coin or bullion and securities of the Government of India or of the United kingdom. The total amount of such securities is limited to 140 millions of rupees of which not more than 40 millions of rupees may be in sterling securities. Under the Act of 1882 the maximum limit of the securities was fixed at sixty millions of rupees butf the issues having largely expanded, the Government of India was empowered by Act We of 1890 to raise the limit to eighty millions The power was utilised to raise the invested reserve to seventy millions on the 19th December 1890 and to eighty millions a year later on the 8rd December 1891 By notification No 5366 of the 18th December 1896 the invested reserve we raised to one hundred millions, the power to do so having been given by Act XXI of 1896 Act III of 1905 raised the limit to 120 millions and in August of that year 20 millions of the reserve were invested by the Secretary of State in consols and exchequer bonds. In 1906-09 the exchequer bonds were replaced by Consols. By Act VII of 1911 the limit was raised further to 140 millions, and in April of that year 20 millions were invested by the Secretary of State in Consols.

### Currency Chest.

Under the Gold Note Acts of 1898 and 1900 the Government of India had obtained authority The officers in charge of the circles of laste are authorised to issue, from the office or offices restablished in their circles currency notes in such angel for the amount thereof (1) in rupes or latif-rupes or in gold coin which is legal tender temporary relief to the Indian money market in under the Indian Cohange Act, IK of 1978, in this way been held in London during 1899 and 1960 but not to any large extent, and the country No moratorium was declared and occasion by doing so ceased, except in regard the excuange value of the rupee was main to gold in transit, from the middle of 1900 . Act taked throughout between the gold points. II of 1910 however, gives full power to hold the metallic portion of the reserve or any part of it either in London or in India or partly in both places, and also in gold coin or builton or in rupees or silver builton at the free discretion of Government subject only to the exception that rupees should be kept only in India and not in London A currency chest was accordingly opened in London and a sum of £8 0.00000 was remitted from India in pursuance of this policy, and a further sum of £1 045 000 was transferred to the chest from the becretary of States balances during the course of 1905-06 On the Sist March 1915 the London currency chest held £ 5 100 000 (Rs /05 lakhs) on behalf of the Currency Beserve.

#### Metallic Reserve.

The metallic reserve may consist of sovereigns, half sovereigns, rupees, and half arrives and gold and silver builton, the last manest being valued at the sum spent on the purchase of such builton. No gold was contained in the reserve between Marris 1873 and February 1898 and the quantity increased very s'owly until February 1899 but from that date it rose rapidly tall the end of March 1900 when It amounted to £7 500 012. Government then took measures to reduce what was considered to be an inconveniently large gold reserve and at the upd of March 1901 the value of the gold reserve had fallen to £5 778 518. In the next three years it again increased continuously from £7 023 921 at the end of 1901 02 to 19,859 564 at the end of 1902 03 and £10 789 567 at the end of 1903-04. During the next three years it remained practically steady the amount held on the 31st March 1907 being \$10 688 841 In 1907 08 the serious monetary crisis in America and the contraction in the exports from India owing to the famine led to a very large increase in the demand for gold atothe Currency offices with the result that on the Slit Alarth 1908 the value of the gold reserve had fallen to 66 417,841 hockustve of £3,705 000 hed in England Adverse trade conditions continued in 1908-09 and on the Sist Marci 1809 the gold reserve had dwindled down to 11523 41s of which £1500 000 was held in England Normal conditions returned in 1909 10 and the stock of gold in the reserve rose to 49 701,716 on 31st March 1910. On the 31st Natch 1915 the stock in the reserve amounted to £ 10,200 000 Bs (1529 lakes)

### Effect of the War

The outbreak of the war fould the Govern ment of hadia in such a strong financial position that it was able to meet with care all demards "portit. The effect of the war on Finance (q > ) and Trade (q v) is fully discussed in the articles that g with those two subjects. Here it is sufficient to say that there was a reduction in th demand for currency, due to the slackness of trade and that the temporary decline of confidence in the Note Issue is dicated by an unusual demand for encachment in August and "eptember 1914, showed no signs of recurring in the words of the London Roonomic Jour 181" the Indian currency system met the crisis better than that of almost any other credit of the Government of India, under the head

Of recent years steps have been taken to increase the popularity of the Note issue the first important measure was the universal sation of Notes up to Bs 100 instead of con fining the facilities for encashment to the circle of Issue in 1914-16 two other important steps were taken it was decided not to re-tastic Note, and so to climinate the cost and filthy paper that is sometimes found in circu nent Tresures should treaty exchange Notes for coins and were reres up to the limit of their order of an improved power The introduction of an improved form of Note is under consideration. At the close of the financial year that is to say March 31st 1015 the secual state of the Paper Currency was as follows -

		21st March
		1916
		Ra.
TOTAL CIRCULATION		<b>61 68 0</b> 0 0 <b>00</b>
Silver Coin in India		32,34 00 000
Gold Coin and Buillion	at	
lndia		7,64 00 000
Gold toin and Bullion	ìn	•
I ugland		7 6a 00 000
Securities held in India		9 99 99 946
Securities held in Rugland		4 00 00 000
IOTAL RESERVE		61 63 00 000

It was the policy of the Government of India to give gold from the Paper Currency Reserve freely on demand. But when the war broke out, it became apparent that gold was being with drawn from the Reserve not to meet legitimate drawn from the Reserve not to meet legitimate doubled but to speculate sovereigns were at a premium in the bassar and those who commanded funds took sovereigns from the Paper Currency Reserve and sold them at a profit Government secondingly declined to issue sovereigns in sums smaller than bet thousand pounds at a time but as the speculators. then clubbed together and formed syndicates to withdraw sovereigns an absolute embargo was Placed on the Issue of gold The effect of these vithdrawals, of the abolition of the Silver Branch of the Gold Standard Reserve and of the transfer of gold from the Paper Currency Reserve to the Gold Standard Reserve in payment of Reverse Councils is seen in the last official statement showing the composition of the

Paper Currency Beaerve —	25th November 1915. Ra.
TOTAL CIRCULATION	61,92,19 990
Silver Coin in India	84 20 93 968
Gold Coin and Bullion in India	7,60,28,106
Gold Coin and Bullion in	
Lngland	6 15 00 000
Securities he d in India	u vo 99 946
Securities held in England	4 00 00 000
TOTAL RESERVE	61 92,1 <i>9</i> 990

"Fronts of note of condition." The interest on the one arended and forty millions of rupes of note on March Sixt 1915 was as follows in the invested reserve amounted in 1914 15 Ba. 44,48,595 the expenditure of the Depart secret being Re. 18 85 417 and the profit Ra. 20, 88. 1464

#### Circulation

The average monthly circulation of the notes has been in millions of rupees -

Five ye	ers ending	1885-86	142 65	,
•	,	1890- <b>9</b> 1	171 67	
т)		1895-96	282 44	
		1900-01	265 39	٠
61		1905-06	861 80	,
**		1910-11	48I 97	٠
н	<b>31</b>	1914-15	640 40	ı

,	1712	
	Pta.	
•	5-rapes 8 189,195	
	10 14 986,196	
1	20 28,774	
ı	50 348 290	
ı	100 1505 197	
3	500 47 870	
	1 000 _ 92 087	
	10 000 15 651	
'	Total pieces 20 262 710	
	Value 61 62,99 615	
	According to an official estimate the cir	
	culating medium in India (excluding war	
Į	fluctuations) is approximately as follows —	

£ 120 000 000

£ 40 000 000 £ 40,000 000

# The Gold Standard Reserve

Rupees

Soverciens Currency Notes

the beginning of 1901 when the profits which had accrued from the comage of rupess from April 1900 amounting to \$3 millions were credited to the fund, gradually remitted to England from time to time and there invested in sterling securities. In the following years the demand for rupees for trade requirements non-constitute further heavy cohange and the fother Currency Commission regarding the policy investments held in the Gold Reserve Fund to be pursued towards the Gold Standard Reservabilly swelled by the credit of the profits we will be found explained in detail in the accident and the interest thereon and amounted at the Currency Commission (q v). Briefly they ciose of 1905-06 to ±12; millions. During the latter half of this year abnormal trade activity resulted in an unprecedented demand for all var currency and necessitated exception ally heavy coinage in a short space of time and acres outlands in a short space of time that i much large gold holding in Equid gold as a side and a short space of time that i much large gold holding in Equid gold as a sold the possibility of a recurrence of should be aimed at and that the Secretary is about the prepared to sell secretary control of State should be prepared to sell secretary of the Gold Reserve Fund was formed and was brought up to its proposed limit of rupes 6 erores (44 millions) by March 1907 and after being for a short time known as the "Gold arear seeing for a short time known as the "Gold and silver Receive Find" it was finally named the Gold Standard Receive. At the close of 1400-07, the Receive contained nearly \$17 millions, of which £12; millions were held in scoartices £4 millions in rupees in India and the rest in gold in India and as a book credit is in not accounty in this report to recount the events of the latter half of 1907-08 it will be sufficient to mention that the sale in India during the first half of 1906-09 of sterling bills on London resulted in the withdrawa from eleculation in India of some Ra. 12 crores the equivalent being withdrawn in gold by the ary of State from the Reserve in London post in the market. By November 1908, the mores. The subsequent improvement in trade one difference of this silver being franctered to the Paper Currency Department in the subsequent which twice and frequent similar transfers substituted to be made, the account being position of the Gold Standard Essave brought adjusted to be made, the account being position of the Gold Standard Essave brought adjusted by a transfer in the opposite direct on the Gold Standard Essave brought then in London, made in gold from the Cur

The Gold Reserve Fund was first started in renew Reserve held there to the Gold Standard Reserve By March 1911 the silver branch in India contained only 2 90 crores and the balance remained at this figure till September 1912 when the resumption of colunge made it possible gradually to increase it up to Rs. 6 crores of which 4; were held in Bombay

Effects of the War —The recommendations

Currency Commission (q v) Briefly they were that the silver branch of the Reserve were that the silver drained of the Accessor about he abolished, and the rupees in the Reserve transferred to the Paper Carrency Reserve in exchange for an equivalent in gold bills and telegraphic transfers on London, or Reverse Councils as they are sometimes called on demand. Unfortunately the war broke out before there was time for this policy to be carried into effect, so the emergency found the Reserve in a transition stage. The measures adopted were prompt and efficacious. The silver branch of the Reserve was abolished by transferring the rupees therein to the Paper Currency Reserve in exchange for an equiva-lent in sovereigns, so that the Reserve was composed entirely of gold and gold securities After a brief interval necessary to consult the Secretary of State, who naturally had to the secretary of State, who naturally find to colour his arrangements by the abnormal financial conditions prevailing in London a notification was issued early in August to the effect that Government would be prepared to add string bills and telegraphic transfers on London to the extent of a million storing a week at the following rates. 2018:13 2.20 on aconomo to the extent of a million storing a week at the following rates —Bills 1 2-29 32d and telegraphic transfers 1-3-27 32 d. This according to the storing and the sto

Strength of the Beserve - Detail	ds of the	. P⊲	Kon Valde £
Sist March 1915 -		Canada 34 per cent, Bonds	161,000
In England—	£	Corporation of London 31 per cent Debentures New South Water, 31 per cont	46 000
Estimated value on the 31st		Stock	113,000
March 1915 of the Sterling Securities of the nominal		Do Treasury Bills	750 000
value of £18,572,73a (as per details below)	12 148,746	New Z aland 81 per cent Deben tures	45 000
Cash placed by the Secretary of		Queensland 4 per cent Bonds	155 000
State in Council at about notice	8 322	Do do Stock	55 000
Deposit of Gold at the Bank of England	1 250 000	Southern Nigeria 4 per expt. Bonds	850 000
In India		TOTAL	13 572,785
Gold Temporary loan to Tressury Balances—India	5 238,184 7 000 000	The balance of the Gold Standard I the Sist October 1915 in India England amounted to £25 714 059 held in the following form —	and in
Book credit in Treasury Ac counts—India	69 957	(1) Gold in India	£ 8,808,142
Total	25 715 <i>2</i> 09	(2) Gold deposited at the Bank of England (3) Cash rise of by the Secretary	1 359 000
Details of investments		of State for India in Conneil at Short rotice	2 409
<ul> <li>British Government 21 per mni Couselidated Stock</li> </ul>	3 206 393	(4) British and Colonial Govern- ment Securities (Value as	
Local Louis 3 per cent Stock	200 (100		19 553,508
Guaranteed 24 pur cent Stock	438 740	(a) Temporary loan to Trea sury balances—India	7 000,000
Transval Government 8 Der cent			
Transval Government 8 per cent Guaranteed Stock	1 092,923		
	1 992,923 16 999 6 885 600		25 714,059

Sterling Bills —The following table shows the details of the weekly allotments since the reverse resultiants were first offered —

Date	Offered	Trairred	Allotted
	£	3	£
ugust 6, 1914	1 000 000	1 091 000	1 000 000
13 1914	1 000 000	813 000	813 000
20 1914	( 1 000 000	63000	632,000
2" 1914	1 000 000	548 000	538 000
pumber 3 1914	1 000 000	474 000	474 000
10 1914	1 000 000	360 000	360 000
37 1014	1 100 000	335 000	335 000
_4 1914	1 000 190	346 000	346 000
October 1 1914	1 000 000	355 000	855 000
8 1914	1 000,000	845 000	345 000
15 1914	1 000 000	601 000	601 000
22 1914	1 000 000	427 000	427 000
29 1914	1 000 000	177 000	177 000
MPHEDETS 1914	1 999 999	- ***	1
12 1914	1.000.000	94 000	94.000
13 1914	1 000 000	390 000	890,000
20 1914	1 000 000	580 000	560 000

A communique dated Delhi, the 11th Novem are stated that the Secretary of State has tony sted the entire holdings of Consols in the Gold Standard Reserve amounting to S 3,223,891, Mostock of the new war joan to the value of S 2177 or This has been done partly by the equivition of conversion rights from the public and to a smaller extent by direct tender for the lew loan.

Starting Bills. -- The following table shows the details of the weekly allotments since the reverse remittances were first offered. -- continued.

	Inte	Off red	Tendered,	Allotted
		£	£	£
Эесешвег	9 1914	1 000 000	256 000	255 000
A-OC MINE	10 1914	1 000 000	371 000	371 000
	17 1914	000 000 1	404,000	404,000
	23 1914	1 000 000	1ייט 900	170 000
	30 1914	1 000 000	50 000	50 000
anuary	7 1915	1 000 000	100 000	100 000
<b>M</b> 1040	14 1915	1 000 000	75 000	75 000
	21 19lp	1 000 000	ł	1
	28 191,	1 000 000	50 000	ρθ 000
e brunry	4, 1915	1 000 000	ł	}
e Da Gint y	11 1915	1 000 000		i
	10 101	1 000 000	}	
	18 1915 25,1916	1 000 000	}	}
		1 000 000	1	j
(arch	4 1915 11 191a	1 000 000	1	ļ
		1 000 000	]	}
	18 191p 25 1915	1 000 000 1 000 000	į.	l
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prit	1 191 ) 8 191 )	1 000 000		
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	25 1915 20 1015	1 000 000 1 000 000		ì
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	20 1915 27 1315	1 000 000 1 000 000		{
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une	2, 1815 10 1dle	1 000 000 1 000 000	100 000	100 000
	10 1910	1 000 000	206 000	208 000
	17 1915	1 000 000	190 000	190 000
	24 1615	1 000 000	155 000	155 000
(u)y	2 1916	1 000 000	160 000	160 000
	0 1915 16 1915	1 000 000	1 075 000	1 000 000
		} 1000000	524,000	524 000
	23 1015	1 000 000	850 000	860 000 00 849 00
	90 I915	7 000 000	843 000	) <u></u>
<b>Augu</b> st	6 1915	1 000 000	455 000	455 00 345 00
	12 1915 20 1915	1 000 000 1 000 000	345 000 15 000	15 00
			10,000	779
eptembe	r 3 1915	1 000 000	EG 040	150 000
	18 1915 24 1915	1 000 000 1 000 000	50 000	
Tutoba-		l l	1	<b>I</b> Ji
October	1 1915 7 1915	1 000 000	1	R(
	· TOTA	1 1000 1000	1	₹ <b>V</b>

1	MEOSS BATEROE IN INDIA AND ENGLAND	MA AND ENG	3 K) UNAL	(15 RUP+1-m21)	1500 10	to die.	61-1401	1979, 13
BEAUS OF REVENUE.	1905-8	1906-7	1867 8-7-8-1	1908-9	1008-10	14-0167	26-41A1	1942-40
PRINCIPAL BEADS OF REVENUE	3	,		,	E 171 688 101			30 382 13
Land Revenue	6,468,780	5 660 528	5,244 986	5 884 788	•	7 581,068	5 061,278	5 124,600
	4 876 410	•						0.000,135
	2,920 304			•				8,277,918
-	953	-		,				552,149
Provinces nature	4 848 017	•		7				
Agents Taxes	1 321 893	_				۳,	1 002,978	
	1,779 566	_		_		-		
Rogertration	261 959				588 307	607.447	505,006	029,542
Value States	00.	-		-	- 1	ł	ſ	ĭ
TOTAL	47,557 889	48 786 945	47,556 832	10,894 535	51 089 875	55 040 985	54,805,240	55,686 830
	934 181	972 193	757,580	987 325	1 184 343	1 405 439	1 448,741	1 478,708
	1 950 24	1751146	1 823 909	1 825 620	1 927 220	1 996 922	2,184 279	2,282,436
	000 854	953 006	1 008 707	978 097	902 851	997 159	1 087,425	1,174 184
	901 100	000	010 010	90	105.039	104 110	867.100	487 759
	321 125	417,488	643 918	102,004	EC6 631	110 011	201/120	1
ERGENTS BY CIVIL DEPARTMENTS  LAW REd Justice  Courts of Law	275 588	27.1	ğ	8	291 339			
-	959,829	192	797	25	280 155			
	145 496	9.4	200	32	140 088			
Watestlon	186 486	100	146	158	165 875			
Medical	000 310	55 646	52 489	56 540	100 435	113 432	114 185	111 804
della semina are percental		3	3			1	1	1
TOTAL	1 184,210	1 100 889	1 097 919	1 145 877	1 148 075	1 211,128	1 238 131	1,384,847
MINGUILLANDUS BLACKETTS	196 421	191 887	921 630		102 086			
d Printing	78715	78745	91 472	95 568	905 324	97 656	108,891	95,078 078,001
Exchange Efections out	334 487	478 947	30,012	285 126	378 997			- 1
Toral	867 488	939 601	711 681	676 706	705,889	109'129	818,076	704,207
	_	_	_	_	_		-	

GROSS REVERUE IN INDIA		AND BROLAND	- 1	IN E (15 RUPERS 1) - (contd.)	-(contd.)		,	-	•
Haads of Bevery	1905-6	1906-7	1907-8	1908-0	1909-10	1910-11	1911-12.	1918-13	194
Tartie ave	49	¥	42	eg.	÷	땈	44	4	
State Railways (Gross Receipte)	88 589,579	25 781 078	27 296 944	88 288 888	28,928 931	30,629 756	88 579 129	80 686,364	
Definit— Working Exponses and Surplus Profits paid to Companies	11 647,231	18 252 245	15 078 8%	16 913 089	16 536,801	16 787 641	17 745,049		
Net Receipts Guaranteed Companies (Net Traffo Receipts) Subsidiated Companies (Government slave of Surpits Profits and Repayment of Advances of Interest).	11,942,848 021 975 42,628	12 528 833 898,801 56,189	12 219 110 428 615 52 606	9 888 709 -961 72 208	12 387 180 	18 842 115 30 846	15 884 080	17 294 686 8 980 78,174	F
TOTAL	12,906 951	12 968 828	12 499 381	0,958 041	12 445 378	18,881 401	15 891 726	17 371 789	747
Linitarios Major World Direct Beerlijks Portson of Land Revenue due to Irrigation	1 869 156 968,779	2,842,281	2 208 014 1 040 588	2,247,624	2,807 077	2 288 061 1 178 005	2,881,538 1,851,485	2,607,478 1,588,845	iciai Si
Minor Works and Kavigation	164 678	183 705	232,046	210 334	235 691	228 466	247,054	767 99E	att.
TOTAL	8 002,608	₹ 682,917	8 480,592	8 558 002	8 680 166	8 694,521	3,880 (152	4 411,817	SHC
OTHRE CIVIL PUBLIC WORLS	254 604	287 868	990 673	287 938	268 786	298 833	826,024	866 447	s
Brogipts by Military Drolltwant. Atmy Effective Non-effective Be-organisation	1 066,873 131 028	1 095 514	808 549 118 930	764 740 98 199	875,567 102,171	948 154 110 495	1 061,080	1 107,244	
OT D	1 189 696 148,770 49 306	1,217,569 148 175 50,999	1 022 479 87 686 57 268	862 989 185 448 69,254	977,728 89 480 75 773	2 058 649 91 787 70 593	1179 366 64 900 78,791	1,227,808 87,600 72,163	
TATO.	1 382 772		1 167 438		1 136 961				
900 900 900 900 900	Lu off ode	-		900 101 00	7. DAS 4.A	90 098 €10	02,680,700	ec,ecu, pae	

# The Currency Commission.

The Royal Commission on Indian Currency or supplementary to the recommendations and Stance was appointed in April 1918, to of the Currency Committee of 1886, more order to inquire into certain questions arising particularly with regard to the location disposition, and employment of the Gold Stan

was made in Parliament of the agency through which large purchases of allver were made for the Government of India in 1912. It was to settle these issues that the Commission was appointed, and it took evidence throughout the latter part of the year 1913. The Boyal warrant appointing the Commission named Mr Austen Chambertah M.P as Chairman and the following members Lord Faber, Lord Kilbracken Sir Robert Chalmers, Sir Ernest Cable, Sir Robert Chalmers, Sir Ernest Cable, Sir Bapuril Broachs, Sir James Begble Mr E. W Gillan C.S.L., Mr H N Gladstone, and Mr John Maynard Keynes The personnel of the Commission commanded a wide measure of confidence. Mr Austen Chambertahn s long con dence. Mr Ansten Chamberlain I long con-nection with the Treasury made him an excel-lent Chalman Lord Kaber was well known as the organiser of the Country Bankers Asso cistion, Lord Kilbracken was long connected with the India Office as Bir Arthur Godley Bir Henry Chalmers in addition to his long Sir Henry Chalmers in addition to his long experience at the Treasury, was Secretary to the Fowler Committee (the was appointed Governor of Ceylon and left England during the rocess) Sir Enrest Cable is one of the best known business men of Calcutta. Sir Shapuril Broacha is the foremast indian broker of Bombay Sir James Begbit, a Preadency Banker and conomist of great experience, is the senior Presidency Banker in India Mr Gillan after fifting the office of Comptroller General and head Commissioner of Paper Currency in India with distinction holds the post of Financial Secretary to the Government of India Mr Gilad tery to the Government of India Mr Glad stone is partner in an important Calcutta firm and adds to his Indian experience a knowledge of business conditions in London and Mr Keynes is a well-known writer on commics who has devoted a considerable amount of strention to the Indian currency system. But tention to the indian currency system. But spart from the actual personnel of the Commission, it was recognized that the Government, in appointing to the Commission none who were strongly identified with the system under criticism had given conspicuous evidence.

order to inquire into certain questions arising particularly with regard to the hoseiton dis-out of the management of the indian currency position, and employment of the Gold Stan system and the control of Indian finance. For some years, and particularly sunce the American the citating practice in these mattern is con-crists of 1907 when the Indian currency system ductive to the interests of India, also to report was severely tried, much criticken had been as to the sultability of the financial organi-lcyelled against the manner in which the print sation and procedure of the India Office and was severely tried, much criticism had been as to see a procedure of the India Office and lovelled against the manner in which the prin astion and procedure of the India Office and object laid down by the Fowler Committee of to make recommendations. To understand 1896 had been developed, and against the the trend of the inquiry it is necessary to have extent to which Indian funds and reserves back a little The currency system of India had been drawn to London These criticisms until 1888 was based on the free coinage of were brought to a head when strong complaint silver. Anyone tendering silver builton at the indian line and in Parliament of the agency through Indian mints was entitled to receive an equivaleat quantity of eller rupees, whose par value
was two shillings But the discovery and
development of the aller mines in America
and elsewhere so vastly increased the quantity
of silver produced that its value measured in
gold rapidly declined. At one time the gold
value of the rupee fell as low as a fraction over
a shilling. This caused great embarrasment
to the Government of India, which has every
year to meet in gold in England large sums
included generally under the name of the
Home Charges. These include interest on the
sterling debt, pensions and furlough allowances
payable in England and stores. They amount
roughly to eighteen million pounds sterling
a year. The depreciation in the sterling value
of the reper mecessitated the devotion of a a year. The depreciation in the sterring varies of the rupes necessitated the devotion of larger and larger number of rupees to this purpose, until the alternatives were either the imposition of additional taxasion to a point which would be politically dangerous, or the adoption of some measures to raise the exchange value of the rupes Between 1878 and 1892, when these difficulties were most acute the main object of the Government of India was man object of the Government of India was to facilitate an international agreement which might cause a rise in the gold price of aliver and thus duminish the inconvenience arising from the retention of a silver standard for India. But when the prospects of an inter-national agreement receded it was then decided national agreement recorded it was then decided to take independent action. Acting on the recommendations of a Committee which was appointed in 1892 and reported in 1898, commonly called arter its President, the Herschell monny cannot after its resultant, the hericages committee the Government decided to close the Indian Mints to the free cohage of silver and to announce that atthough closed to the public, the mints would issue rupees to the public in exchange for gold at the ratio of fifteen to one, equivalent to one shilling and four pence the rupee.

spart from the actual personnel of the Commission, it was recognised that the Government, in appointing to the Commission nonex, in appointing to the Commission nonex who were strongly identified with the system under criticism had given conspicuous evidence the cachenge value of the rupes, until 1896 of their desire to investigate impartially the whole question

Tarms of Reference

The specific points referred to the Commission were to inquire into the location and paragraphent of the general behaves of the properties laid down by the Horsehell Commission prediced over by overnment of India, the sale in London of Sir Henry Fowler which reported in 1896 to the Commission produced a report of remark to the Commission produced a report of remarks of State for India in Council to maintain the general expectation in was practically unaminating value of the rupes in pursuance of,

should be established, and the ratio between the rupee and the sovereign was to be fifteen at the disposal of the market had met with a toesee. The mints were to be opened for the coinage of gold but to remain closed to the public for the coin age of gilver. Government afsets were to have the right to coin silver.

Council Bills.

Arising out of this question of the balances subject to directions laid down and the profits accumulated from this coinage were to be accumulated to form a snexial reserve in political snexial political to form a snexial reserve in political snexial polit accommission from the country water to be accommissed to form a special reserve in gold. It is of the greatest importance to remember that the Fowler Commisses recommended that there should be the normal accompanineed of a gold standard—a gold currency and a gold mmt, and emphatically put aside the suggestion that there should be a gold standard wishout a gold currency—a system which has stace obtained some measure of academic support under the name of the gold exchange support under the name of the good enchange standard. The chief criticisms of the policy actually pursued centre round the broad issue that whilst accepting the Fowler Committee's recommendations in principle the Government of India, or rather the Secretary of State acting to the state of Figures Committee or which on the stylce of a Finance Committee on which on use stytes of a Finance Committee on Which the Indian element was reduced until it dis appeared, departed from them in practice With this introduction, we can consider the criticisms levelled at the practices specifically referred to the Chamberlain Committee.

Cash Balances.

The cash belances of the Government of India are held in part in India and in part in London This arises from the necessity of meeting obligations in both countries. For reserve the Secretary of State reanaged his distinuencents with a balance of between four and five millions sterling. But from 1907 conwards this policy was revened and enormous

balances were heaped up in London
The growth of these balances is illustrated
by the following figures—

	£
1907	4 607,266
1908	7 983,898
1909	12,799 090
1910	16 697,245
1911	15,292,688
1918	18,890 013

It was contended that these balances should have been retained in India, and there used enther for the reduction of taxation or for ex penditure on ameliorative works like education, maritation and medical relief. The official explanation was that these balances were drawn to London to meet the convenience of trade which had grown used to the convenience of trade which had grown used to the convenience afforded by the sale of Council Bills far in excess of the Secretary of State's question was a subsidiary one. It was remarked that the whole of the Secretary of State's cash balances were leat in London at how rates of interest. In part these went to "approved" borrowers, In part these went to "approved" borrowers, the part these went to be seen the secretary of the secretary tion, mattation and medical relief. The official on scently, and when these were glutted, to the London joint stock banks—including those banks represented or the Finance Committee

Arking out of this question of the balances in London was the subsidiary one of the rates at which the Secretary of State sold Bills and Telegraphic Transfers on India. The Secretary of State has to meet his Home Charges in London To do this he sells what are called of State and we have the sells what are caused Council Bills every week. These Bills are offered for tender at the Bank of Ragiand every Weekneedsy remembg and successful ten derest are given Bills on Bombay Calcutta and Medras which are cashed at the Treasffries. Ir amuch as a forinight is lost by the time in transit, it is worth paying extra to obtain what are called Telegraphic Transfers by means what are called Teiggraphic Transfers by means of which rupees can be obtained from the Tressuries in India almost immediately after the payment of gold into the account of the Becretary of State in London Telegraphic Transfers usually sell at a rate of one thirty second above the rate for Bills. In addition to the wookly allotment the India Office sell bills called appearable between the weekly allotments, at one thirty-accound above the anotion rate. The criticism Obreton explaint this practice was to the effect that on occasion lower rates were accorded than might have lower rates were accepted than might have been obtained and that Bills against the Gold Standard and Paper Currency Reserves were sold below gold export point, thereby diverting the natural flow of gold to India.

#### Exchange Value of the Rupee.

The buttress of the gold standard under the system recommended by the Fowler Commitsystem recommended by the rowler commi-tee was to have been twofold—a gold our-rency and a special reserve, built up out of the profits on colning. It was made the ground of criticism that having decided to adopt these principles, the India Office did practically matching to establish office with a coloring and offer. fflucibles, the India Office did practically nothing to establish an effective gold circulation. After one abortive attempt, the policy of accustoming the people to a gold circulation was abandoned On the other hand, the colning of rupees was prodigiously heavy During the years 1905-07 £42 millions' worthy of rupees were added to the token currently which is said to be the heaviest coinage in the history. history of the world The result was that instead of endowing lufts with a gold our rency and a subsidiary token coluage, the vast bulk of the metallic circulation was in rupees The standard was gold, but the circulating medium was allver According to the latest medium was silver According to the latest returns the currency of India is made up of sixty crores of gold, anxiy crores of notes, and one hundred and eighty crores of rupess. A certain amount of gold has flowed into the country and had passed into the circulation in the form of sovereigns, but it was contended that the productus coming of token rupees, the lack of any definite policy to popularize represented or the Finance Committee to fixe India Office Commet—without security the sovereign, and the fairer to open the On the other hand the surplus balances of the India of India in India were withdrawn more convenient value than the lifteen rapses the momey market and locked up in the Bestrot Treasuries, with the effect of making overeign, had resulted in the establishment money triffichilly dear every best warmen, to Committee a more convenient to the establishment money triffichilly dear every best warmen, to Committee, namely, an empirical the first press that great disadvantage of the infermal trade, rency with a small gold developing.

#### Gold Standard Reserve

fund formed from the profits on coining, called the Gold Standard Resource effective butteress of exchange It was com-plained that whereas the principles land down for the meanagement of this fund were clear and definite they had been systematically departed from in practice For instance it is now admitted that the Fowler Committee meant that this fund should be held in gold in India. Contrary to the express desire of the Government of India, the Secretary of State decided that it should be held in securi-ties in London Then in 1906 in order to meet an embarrassing demand for rupees at the height of the busy season in India and neighbor the busy season in inclusit was decided to hold £4 millions of the Reserve in allver in India. In 1907 pressed to find moment for maliway construction in India, the India Council decided to devote half the profits on coming to capital expenditure on railways. These changes were made without consulting the great commercial interests affected and so far as the diversion of a moiety of the profits at coining were concerned in direct opposition to the policy of the Government of India.

The critics maintained that their position was made good by the results of the crisis in America in 1907. The sudden cessation of the demand for Indian produce caused by the financial collapse in the United States com-bined with a partial famine in India and the beavy arrival of imports in response to long dated contracts, revened the tide of exchange for the first time since the gold standard was for the lart time since the gold stainard was established. There was a den and for gold in London rather than for rupees in India The Gold Standard Reserve, which should have been readily available for the purpose, them stood at £50 000 in money at sbort notice and £14 million in securities. There is no combet that thou where the properties are the combet and the contract of the doubt that the weakness of the position thus revealed paralysed the action of the Govern ment when the emergency arese Council Bills were unsaleable Gold was released only in driblets of £10 000 at a time, and exchange which was to have been maintained at one and which was to have over maintained up one aim four pence fall to one-three eleven-sixteemins Later the Iudia Office had to agree to sell sterling bills on London at gold export point and £8 millions were taken in this way before the demand was stayed Various other ex and t 5 minious were taken in this way before the demand was stayed Various other ex-pedients had to be adopted in order to weather the storm and it has been calculated that the deterioration in the Secretary of States pos-tion in the year of the crisis was not far short of 2.25 millions. This experience has been cited as illustrative of the necessity of strength soing the gold reserves of India without any further tampering with the Gold Blandard Reserve, of allowing that Reserve to grow without limit, and of keeping a substantial portion, if not the whole in actual gold

tate the purchase of silver for tolning. On the other hand critics pointed out that inecession as the Paper Currency was only redeemable in India, the proper place for the Paper Currency Reserve was in India and not in London Further, that sithough the fund was specially removed to London for the purchase of allver, slive had since been purchased from the cash balances

# Financial Organisation of the India Office.

The financial business of the India Office is managed by the Finance Committee. This is managed by the Finance Committee. Lass Committee exercises very wide powers in practice, it is said the powers of the Indis-Uffice are mushly exercised by the different committees into which it is divided The collective authority and influence of the Council are weak, and the Secretary of State and the Committees are supreme Whilst this generally applies to the work of the India Office, it applies with particular force to the work of the Fmance Committee Finance is a technical subject, with which few of the members of the Council are competent to deal Moreover, much of the work must be done from day to day, and cannot wart for the weekly meeting of the Council It was made a matter of complaint that the constitution of this Com mittee which to use the words of an ex Viceroy mittee which to use the words of an ext vicesory Lord Curron exercises wide powers, and acts, not only as financial arbiter but almost financial autocrat had undergone a marked change. Whilst formerly there used to be upon it some member who had served the Government of India in the Finance Department, and on occasion a member who had been us the employ of one of the Presidency Ranks. m the employ of one of the Presidency Banks, in the employ of one of the Presidency Banks, this Indian element had been gradually reduced to vanishing point, until the Finance Committee of the India Office Council consisted of two London point stock bankers and one member of the Homes Civil Bervice none of whom had any expensive of Indian conditions. It was argued that the Finance Department of the Government of India should always be represented on this Committee, by a retired officer and if practicable, the Presidency Banks and Indian Commerce and in dustry

### The Evidence

The Commission commenced his sittings on May 27th, and rose for the recess on August 6th It then saved what has been called an interim report but which never pretended to be anything of the sort, and was confined to a reprint of the evidence given up to that point without comment of any description This blue book contained the important correspondence which had passed between the Government of India and the India Office on currency and finance questions, together with memoranda from the India Office outwith memorands from the India Office outperformed in the Whole in actual gold.

Apart from the withdrawal of the Gold Standard Reserve to London and its investment there, under an Act of 1905 a sum of £ 6 million of gold in the Paper Currer of Reserve was of the India Office—Mr Lionel Abrahams of gold in the Paper Currer of Reserve was of the India Office—Mr Lionel Abrahams of gold in the Bank of England under the target outperformed in the Bank of England under the target the India Office, Mr Water Backet, and Mr Accountant General at the India Office.

The declared object of this fund was to faultof State in Council. Then followed many misociamous witnesses, whose names and qualifications are given below

Sir Daniel Mackinson Hamilton nominated by the Bengal Chamber of Commerce Indian landowner

Bank of India, Limited
Mr T Fraver Manager of the Chartered
Bank of India, Australia and China Nomi nated as their representatives by the Exchange Banks doing business in India.

Mr O T Barrow c.s.t., formerly Comp-troller and Auditor General in India (1905-1910) retired Witness on behalf of the Gov ernment of India

Mr Alfred Clayton Cole, Governor of the Bank of England, 1911 1913

Mr Harry Marshall Ross retired Calcutta Export Mcrchant, late Honorary Secretary Central Committee, Indian Curroncy Associa-tion Nomnated by the Bengal Chamber of Commerce

Sir Alexander McRobert Indian Woollen Manufacturer a former President of the Upper India Chamber of Commerce and a former Member of the Legislative Council of the United Provinces Nominated by the United Pro

vinces Government.

Mr Bhupendra Nath Mitra, CLE. Assistant Secretary to the Government of India in the Finance Department Witness on behalf of the Government of India

Mr James N Graham nominated by the

Bombay Chamber of Commerce
The Hon Montagu de P Webb C.L. Chair
man of the Karachi Chamber of Commerce

Mr William Bernard Hunter Secretary and Treasurer of the Bank of Madras and Chairman of the Madras Chamber of Com

by the Bengal Chamber of Commerce and the East India Section of the London Chamber of Commerce

Mr Marshall F Reid C.I K Mercha Member of the Legislative Council, Bombay Merchant.

Mr Le Marebaut, a former Member of the fudian Council and a former Chairman of its Finance Committee A Member of the Indian Currency Committee of 1898

Mr L G Dunbar, Secretary and Treasurer of the Bank of Bengal

Mr H F Howard, CLE, 10.8. Collector of Customs Calcutta Witness on behalf of the Government of India.

Mr Thomas Smith nominated by the Government of the United Provinces for his know ledge of the Currency and Banking problems of North India

Mr M R. Sundara Ivor Secretary to the Economic Association Madras Nominated by the Madras Government

#### Final Meetings.

The Committee re-assembled on October 23rd and sat until November 14th During this period it heard the following witnesses:

Sir James Meston, KC.S.I. Lieutenant Governor of the United Provinces and formerly Secretary to Government in the Financial Department

Mr Morton Frewen

Mr Vidya Sagar Pandya, Secretary of the Indian Bank Ld., Madras Nominated by the Madras Government

Mr Stanley Reed LLD Editor of The Times of India Bombay

Mr F C Harrison C.S.L., Indian Civil Service (retired) who has held various posts in the Fin nance Department.

Mr Laurence Curric Member of the Indian Council and its Finance Committee.

Lord Inchesp a firmer member of the Indian Council and a former Chairman of its Finance Committee.

Sir Felix Schuster Bart Member of the Indian Council and Chairman of its I brance (omnuttee

Mr Dadiba Merwanice Dalal Senior Partner erce Mesars Merwaujer and one block Bullion Fx Mr Charles Campbell McLeod, nominated change and Pinance Brokers Bombay Nominated ed by the Bombay Government.

Sir Cuy D A Fleetwood Wilson GC.I.E. K.CB KrwG late Finance Member of the Vice-roy's Council

Mr Lionel Abrahams, C.B. Assistant Under Secretary of State for India.

Sir T W Holderness, E C S.L., Under Secretary of State for India

### THE REPORT

The report was dated February 24th, 1914 some delay countring through the necessity of referring to by Henry Chalmers, who had taken up his post as dovernor of Ceylon and Sir Shapurii Broachs, who had been obliged to return Bombay on acrount of the severe financial crisis consequent on the failure of certain of the swadeshi banks. The report was long and detail ed, so the Commission furnished a summary of it which condensed their opinions and recommendations in the following passages -

- 2. The establishment of the exchange value of the rupee on a stable basis has been and is of the first importance to India.
- 2. The measures adopted for the maintenance of the exphange value of the rupes have been necessarily and rightly rather sup-

- plementary to than in all respects directly in pursuance of the recommendations of the Committee of 1898
- 3 These measures worked well in the crists of 190 -08 the only occasion upon which they have been severely tested hitherto.
- 4. The time has now arrived for a reconsideration of the nitimate goal of the Indian Currency system. The belief of the Committee of 1998 was that a Gold Currency in active circulation is an essential condition of the maintenance of the Gold Standard in India, but the history of the last 15 years shows that the Gold Stan-dard has been firmly secured without this condition.

- It would not be to India a advantage to encourage an increased use of gold in the internal circulation
- The people of India neither desire nor need any considerable amount of gold for circulation as currency and the currency most generally suitable for the internal needs of India consists of rupees and notes.
- 7. A mint for the exinage of gold is not needed for purpose of ourrony or exchange, but if Indian sentiment genumely demands it and the Government of India are prepared to incur the expense there is no objection in principle to its establishment either from the Indian or from the Imperial standpoint provided that the columinated is the sovereign (or the half sovereign), and it is pre-eminently a question in which Indian sentiment should reveal
- If a mint for the comage of gold is not established refined gold should be received at the Bombay Mint in ex change for currency
- J The Government should continue to aim at giving the people the form of currency which they demand whether rupees, notes or guid, but the use of notes should be encouraged.
- 10 The essents it point is that this internal currency should be supported for exchange purposes by a thoroughly adequate reserve of gold and striing
- 11 No limit can at present be fix'd to the amount up to which the Gold Stanlard Besorve should be accumulated
- 12 The profits on comagn of ruples should for the present continue to be credited exclusively to the Reserve
- A much larger proportion of the Reserve should be held in actual gold. By an exchange of assets between this Be-Serve and the Paper Carrency Reserve, a total of about £10 000 000 is gold can be at once secured. This total should be raised as opportunity off its to £15 000,000 and thereafter the authorities should aim at keeping one-half of the total Reserve in actual gold.
- 14 The Indian branch of the Gold Standard Reserve in which rupees are now held should be abelished the rupees being handed over to the Paper Currency Reserve in exchange for gold
- 1. The proper place for the location of the whole of the Gold Standard Reserve is London
- 16 The Government should definitely under take to will hills in Indiaon London at the rate of 1s 3 29 32d per rupce when ever called upon to do so
- 17 The Paper Currency system of India should be made more elastic. The fiduciary portion of the note leave should be in creased at once from 14 crows to 20 crores, and thereafter fixed at a maximum of the amount of notes held by Government in the Reserve Treasuries pine one-third of the net dremistion, and the Government should take power to make

- temporary investments or loans from the fiduciary portion within this maximum in Indus and in London, as an alternative to investment in permanent securities.
- 18 We recommend the immediate universali sation of the 500 upper note and the increase of the facilities for the encashment of notes.
- 19 The aggregate balances in India and London in recent years have been unusually large. This has been due mannly though not enterely to accidental causes and to the exceptional prosperity of India.
- 20 Cantion is justifiable in framing Budgets in India but has been carried rather fur ther than was necessary in recent years.
- 21 A change in the date of the commencement of the financial year from the 1st April to the 1st November or the 1st January would probably \_nable the Government of india to traine more accurate Endgets buch a change would also enable the India Office to fix the amount of their borrowings in London with closer regard to immediate needs. We commend this proposal for favourable condictations.
- 22 The practice of transferring revenue satiplizes to London to be used in avoiding or reducing tresh borrowings for capital exp-nditure has been thoroughly justified in the interest of India, and the Secretary of State has made good use for this purpose or for actual reduction of debt, of the balances from time to time accumulated in his hands.
- 3 But the recommendations which we make as regards loans by Government in Indias may lead to a revision of the occasions though not of the extent, of transters of money to London
- 24. The independent Treasury system of the Indian Government is not an ideal one. It is partly responsible for the stringency which recurs annually in the Indian money markets.
- We recommend that the Government of India should make a regular practice of granting loans to the Presidency Banks from their surplus balances in Indiaagainst security on terms to be negotiated with the Presidency Banks.
- 20 In deciding upon the location of surplus balances, the Government of India and the Secretary of State should act in consultation, and while the transmission of the necessary funds to Leadon at favour able rates of exchange is the first condensation the authority should have regard to all the factors including the possibility of utilizing surplus balances for loans in India.
- 27 In carrying out these recommendations, the authorities should proceed tentatively and with caution
- 28. We recommend that the amount of the annual rupee loans in India should be increased as much as possible. The figures of recent loans appear to have been somewhat over cardious. We call attention to the questions of relaxing.

- present regulations in regard to undorsements on rupee paper and of creating new forms of securities
- 29 The Secretary of State sells Council Drafts, not for the convenience of trade but to provide the funds needed in London to meet the requirements of the Secretary of State on Indias behalf
- 30 The India Office perhaps sold Council Drafts unnecessarily at very low rates on occasions when the London balance was in no need of replenshment but we do not recommend any restrictions upon the absolute discretion of the Secretary of State as to the amount of drafts sold or the rate at which they are sold, provided that it is within the gold points. The amount and occasion of sales should be fixed with reference to the urgency of the Government's requirements and the rate of exchange obtainable, whether the drafts are against Treasury balances or against the Reserves.
- 31 There has been some excess of caution in the renewal of debt by the India Office during recent years.
- 22. The system of placing portions of the India Office balance out on short loan with approved borrowers in the city of London is on the whole well managed but we draw attention to
  - (a) The term for which loans are made
  - (b) The descrability of giving greater publicity to the methods by which admission is gained to the list of approved bor rowers.
- (c) Some defects in the list of approved according and especially its narrow range.
- 33 There is no ground for the auggestion that the City members of the Secretary of State a Council aboved any kind of favourities in placing on deposit with certain benis, with the directorates of which they were connected, a part of the India Office balance at a time when it was too large to be placed entirely with the approved horrowers. But we call the strength of the Secretary of State to the destrability of avosting as far as possible all consistent or such criticans, though it may be immobed on prejudice and ignorance of the facts.
- 34. We observe that in our opinion the time has come for a general review of the relations of the India Office to the Bank of England.
- 35 The working of the present arrangements for the remuneration of the Secretary of State's broker should be watched, and if necessary they should be revised.
- 36 We record our high opinion of the way in which the permanent staff, both in India and in London, have performed the complicated and difficult financial duties piaced upon them.
- 67 We recommend a continuous of a Pinance Consulties of Council as providing the machinery must estable for the work revisited.

- The Finance Committee should, if possible, contain three members with financial experience representing —
  - (a) Indian Official Finance.
  - (b) Indian Banking and Commerce.
  - (a) The London Money Market.
  - In any case there should be at least one member with Indian financia. The absence of any representative of Indian finance on the Committee since 1011 has resulted in giving undue prominence to the representation of London City experience.
- 39 While we suggest that the changes recently proposed and now under discussion in the constitution of the India Council may require some modification in order to provide for the continuance of a Finance Committee of Council we are in sympathy with the desira for expediting financial business, which is one of the objects in view.
- 40. The present arrangement under which the Assistant Under Secretary of State, having financial experience, is able to share with the Financial Secretary the responsibility for financial basiness in the India Office has many advantages. For the inture we recommend that either (1) the Under Secretary or Assistant Under Secretary of State should have financial experience as at present, or (2) there should be two Assistant Under Secretary of whom one should have financial experience.
- 41 We are not in a position to report either for or against the establishment of a State or Central Bank but we regard the subject as one which deserves early and careful consideration and suggests the ap
  - pointment of a small expert committee to examine the whole question in India, and either to pronounce against the proposal or to work out in full detail a concrete scheme capable of immediate adoption.

A Note of Dissent.

The report was signed by Str James Begble subject to a note of dissent. In this he pointed out that the currency policy directed to the attainment of stability in the exchange value of the rupes by means of gold reserves collected from the profits realised on the college of rupes had brought into existence an extensive token currency which was not a destrible form of ouriency to a country which absorbe gold on a very large scale. Sir James Begble therefore held the view

That the true line of advance for the currency policy is to discourage an extension of the token currency by providing increased facilities for the distribution of gold when further increases in the currency become necessary. These greater facilities should, I consider, include the issue of gold colors from an Indian mint of a value more suitable for general currency use than the sovercipa and half-coveragen, for the purpose of assisting the distribution of gold when, as is frequently the rest, the balance of wade is strong in Indias increases and gold service in considerable quantities. I also think that supplies of gold coins should be laid down in the up-country districts with the object of giving the general public effective opportunities of obtaining gold coins. I also think that supplies of gold coins

#### Action in India

The publication of the report around surprisingly little interest. Only one paper in India, and none in England, exhaustively analysed it Broadly speaking, it may be said that the report was approved by those engaged in the foreign trade, whilst a strong body of those interested in the internal trade shared the views of Sir James Begble. The statement of the Commission that India neither desires nor needs a gold our rency, was warmly canvased and in an address to the Finance Member in July the Indian Mer chants' Bureau declared that the currency needs of India are silver and gold not notes, and gold rather than allver

But whilst action on the report as a whole has been deferred until after the termination of the war-indeed it is doubtful if any sort of general pronouncement will be made on the order to met immediate procesities. Thus in 1914 the silver branch of the Gold Standard Reserve was abolished the rupces held in that reserve being exchanged for an equivalent in gold taken from the Paper Currency Reserve The Gold Standard Reserve—it is sometimes called the Gold Reserve Fund—now consists cutirely of gold and gold securities. In 1914 a Notification was issued guaranteeing to issue sterling drafts on the becretary of State in London—these are called for convenience Reverse Councils—at Lold export point on demand The extent of this demand will be found in the section dealing with the Paper time of pres ure

Ourrency and the Gold Standard Reserve (see aute) Another important step was taken by the Secretary of State when he announced that he had exchanged the Consol holding in the Gold Standard Beserve for the new four and a coun reancaru accerve for the new four and a half per cent, ioan. The official communica-said — the Secretary of State has converted the entire holdings of Consols in the Gold Standard Reserve amounting to £3,268,591 into stock of the new war loan to the value of \$2,177 594 This has been done partly by the acquisition of conversion rights from the public and to a smaller extent by a direct tender for the new loan In the autumn of 1914, when there seemed to be every likelihood of a complets break in the price of cotton unless special steps were taken to enable holders to carry the crop the Government of India stiffened the money market by offering the Presidency Banks loans from the Paper Currency Reserve in order to assist in the financing of threatened trades.
This help was not needed because cotton recovered its value with surprising celerity and there has been a surplus rather than a deficlency of money on account of the paralysis report because of the great changes effected of trade and the reduced demand. The question by the war—partial action has been taken in of a State Bank is in abeyance. When the scheme was first mooted its reception was generally hostile It was impossible to see how the interests of the three Presidency Banks and of the large Joint Stock and Exchange Banks could be reconciled with a great State make could be reconciled with a great state institution. Since then there has been a certain revulsion of feeling though opinion is still nicely divided and there are many who whilst not hostile to a State Bank per se are inclined to think that Government can be of more assistance in time of crisis by remaining outside banking and placing its resources at the disposal of the market through the Presidency Banks in

# The Railways.

menual lines were sanctioned in 1845 These were from Calcutta to Ranigani (127) miles) the Rast Indian Railway Bombay to Kalyan (33) miles Great Indian Perinsula Railway and Madras to Arkonam (39 miles) Madras Railway Indian Railway building on a serious scale dates from Lord Dalhousles great minute of 1853 wherein after dwilling upon the great social political and commercial ad vantages of connecting the chief cities by rail he angrested a great scheme of trunk lines finking the Presidencies with each other and the meand regions with the principal ports The reasoning commended itself to the Directors of the Eat India Company and itself to the Markov of the Eat India Company and itself to the Martiny the barriers imposed on free communication was considered when during the nication were severely felt. As there was no private capital in India available for railway construction, English Companies, the interest on whose capital was coaranteed by the State, were formed for the purpose By the end of 1859 contracts had been entered into with eight companies for the construction of 5 000 miles of line, involving a guaranteed capital of £52 millions These companies were (1) The East Indian (2) the Great Indian Penin sela (3) the Madras (+) the Bowbay Baroda and Ceptral India (5) the Savtern Bengal, (6) the Indian Franch now the Ordh and Bohikuud State Railwa (7) the Sind Pranjab and Delhi now merged in the North Western State Railway (8) the Great Southern of India now the South Indian Railway The scheme laid the foundations of the Indian Railway system as it exists to-day

# Early Disappointments.

The main principle in the formation of these companies was a Government guarantee on their capital for this was the only condition on which investors would come forward. This guarantee was five per cent, coupled with the free grant of all the land required in return the companies were required to share the surplus profits with the Government, after the guaranteed interest had been met the interest charges were calculated at 22d to the rupee the Railways were to be sold to Gov erament on fixed terms at the close of twenty ave years and the Government were to exer-cise close control over expenditure and work make Prosts sumflent to meet the guaranteed were the terms strictly appeared to the basic strictures attributed this to the Light Railway on the two feet six mehas gauge, someosessatily high standard of construction entered the field without any guarantee, and adoesed and to the engineers ignorance of with rolling stock designed to illustrate the local condition the result was that by 1850 carrying power of this gauge. The rebats the deficit to the Railway budget was Rs. 1661 terms being found unattractive in view of the lakhus. Secting for some more economical competition of a per cest, trustee stocks, meethed of construction, the Government they was revised in 1896 to provide for an

The history of Indian Railways very closely reflects the Francial vicustitudes of the country flot for come rime after the establishment of lot the some rime after the establishment of lot Railways in England was their construction for cheapness. Funds soon lapsed and the la India contemplated, and then to test their money available had to be diverted to completely to Railways to Railemann and Funjab lines from motors. hardways in the contemplated, and then to test their money exemine and Punjab lines from metre applicability to Rastern conditions three experimental lines were senctioned in 1845. These to broad gauge for strategic reasons. Gov mental lines were senctioned in 1845. These to broad gauge for strategic reasons government had therefore again to resort to the contemplate of Rasingani (120 pules) erimment had therefore again to resort to the Milland entiment had derenier again to resort to the system of rutarantee, and the Indian Midland (1882 85) since absorbed by the Great Indian Peninsula the Bengal Nagpur (1888-87) the Southern Maratha (1882) and the Assam Bengal (1891) were constructed under guaran tees but on easier terms than the first com panies Their total length was over 4 000 miles.

#### Famine and Frontiers.

In 1879 embarrassed by famine and by the fall of the exchange value of the rupes, gov ernment again endeavoured to enlist unaided private enterprise Four companies were promoted —the Vilgin the Delin Umballa Kalka, the Bengal Central and the Bengal North-Western 1he first became bankrupt. North-Western The first became bankrups, the second and third received cuarantees and the Tirhut Railway had to be leased to the fourth A step of even greater in portance was taken when Native States were invited to undertake construction in their own territories, and the Nizana 6 dovernment guaranteed the interest on 330 miles of line in the State of Hyderabad This was of line in the state of Hydersbad. This was the first of the large system of Native State Railways. In the first period up to 1870, 4265 miles were opened of which all save 45 were on the broad gauge during the next ten years there were opened 4,239 making the total 8 494 (on the broad gauge 6 502 the metre 1865 and narrow 87). Then ensued a period of financial case. It was broken by the fall in exchange and the couly lines built on the fronter. The Penjdeh incident which brought Great Britain and Russia to the verne brought Great Britain and Russia to the verge of war necessitated the connection of our outposts at Quetta and Chaman with the main trunk lines The sections through the desolate Harnal and Bolan Passes were enormously coatly it is said that they might have been ballasted with rapers the long tunnel under the Khojak Pass added largely to this necessary but unprofitable outlay

# Rebate Terms Established.

This induced the fourth period-the system of rebates Instead of a gold subsidy com-panies were offered a rebate on the gross earn ings of the traffic interchanged with the main hue, so that the dividend might rise to four case convo over expenditure and work, him, so that the dividend might rise to four him are carly results were disappointing per cent, but the rebate was limited to 20 per Whilst the Railways greatly increased the cent of the gross carnings. Under these con efficiency of the administration the mobility, ditions there were promoted the Ahmedabad of the troops the trade of the country and the Prancie, the South Behar and the Southern movement of the population, they failed to Punjab, although only in the case of the first makes profits unforted to the grant the Upstantian article of the first makes results unforced the second of the troops are the terms strictly adopted to The Barrier. ment of their own net earnings the total being limited to 84 per cent on the capital outlay Under these terms a considerable number of feeder line companies was promoted though in none were the conditions arbitrarily exacted As these terms did not at first attain their purpose they were further revised and in heu was substituted an increase in the rate of guar antee from 8 to 34 per cent and of rebate from 31 to 5 per cent with equal division of surplus profits over 5 per cent in both cases At last the requirements of the market were met and there has since been a mild boom in feeder railway construction and the stock of all the sound companies promoted stands at a sub stantial premium.

### Rallway Profits Commence.

Mountime a much more important change Meanting a much more important change was in progress the gradual economic development of the country vastly increased the traffic both passenger and goods. The falling in of the original contracts allowed Government to renew them on more favourable terms. The development of trigitation in the Punjab and Sind transformed the North-West. can state Railway Owing to the burden of maintaining the unprofitable Frontier lines this was the Cinderella Railway in India—the scapegoat of the critics who protested against the unwisdom of constructing railways from borrowed capital. But with the completion of the Chenab and Jhelum Canals the North of the Chouse and Japan Canas the North Western became one of the great grain lines of the world, choked with traffic at certain seasons of the year and making a large profit for the State In 1900 the railways for the for the State In 1990 the rauways for one first time showed a small gain to the State In succeeding years the net receipts grew rapidly In the four years ended 1907-08 they averaged close upon 12 millions a year In the following year there was a relapse. Bad In the following war there was a fuspee. Dan hartests to lindua accompanied by the monetary panic caused by the American financial crisis led to a great falling off in receipts just when working expenses were rusing owing to the general increase in pricer Instead of a profit, there was a deficit of £1240 000 in the railway accounts for 1908 09 But in the following year there was a reversion to a profit and the net Railway gain has steadily in creased For the year ended March 1913 this gain amounted to 45 49 millions (Rs 823 lakhs) Although in a country like India, where the mances are mainly dependent upon the character of the monsoon the railway revenue must fluctuate, there is no reason to anticipate a further deficit but every ground for hoping that the railway profits will fill the vacuum in the Indian revenues caused by the cereation of the opium trade with China.

# Contracts Revised.

absolute guarantee of 3 per cent with a share to fall in was the East Indian the great line of surplus profits, or rebate up to the full car connecting Calcutts with Delhi and the Northtent of the main lines net carnings in supple orn provinces When the contract lapsed, the Government exercised their right of pur-chasing the line, paying the purchase-money in the form of terminable amounties, derived from revenue carrying with them a sinking fund for the redemption of capital. The rail way thus became a State line but it was re-leased to the Company which actually works it Under these new conditions the East it Under these new conditions the East Indian Company brought to the State in the ten years ended 1909 after meeting all charges including the payments on account of the terminable annuity by means of which the purchase of the line was made and interest on all capital outlay subsequent to the date of purchase a clear profit of nearly ten millions. At the end of seventy four years from 1880 when the annuity expires, the Government will come into receipt of a clear yearly income of upwards of £2,700,000 equivalent to the creation of a capital of sixty to seventy to the creation of a capital of sixty to seventy millions sterling. No other railway shows results quite equal to the Last Indian because, in addition to serving a rich country by an easy line it possesses its own collieres and enjoys cheap coal But with allowance for these factors all the other guaranteed com panies which have been acquired under similar proportionately swelled the revenue and as-cts of the State. It is difficult to estimate the amount which must be added to the capital debt of the Indian railways in order to counter balance the loss during the person when the According to one estimate it should be £50 mil lions But even if that figure be taken Government have a magnificent asset in their railway property

# Improving Open Lines.

These changes induced a corresponding change in Indian Railway policy Up to 1990 the great work had been the provision of trunk lines. But with the completion of the hagda Muttra lime providing an alter native broad gauge route from Bombay to native broad gauge route from homozy to bells through Lastern Rajputana, the trunk system was virtually complete. A direct broad gauge route from Bombay to Sind is needed but chiefly for strategic purposes. The poor commercial prospects of the line and the opposition of the Rao of Cutch to any through line in his territories keep this scheme through line in his territories keep this scheme in the background. There does not exist any through rail connection between India and Burma although several routes have been surveyed the mountainous character of the region to be traversed, and the easy means of communication with Burma by sea, rob this scheme of any living importance. Further Survey work was undertaken in November 1914 the three routes to be surveyed being the coast cort, the Manipur route and the littlems value. route, the Manipur route, and the Hukong valley A very important factor in this changed position is the revision of the original contracts under which the guaranteed lines were constructed. The five per cent. dividend with Delhi, a project that is now under suranteed at 23d per rupee, and the half investigation. But these works are subordly yearly settlements made these companies nate to the necessity for bringing the open a drain on the State at a time when their stock lines up to their tradic requirements and was at a high premium. The first contract providing them with feeders. The sudden in-

crease in the trade of India found the medn lines totally emprepared Costly works were necessary to double lines, improve the equipneonary to floatist mer, imports and terminal tacilities and to increase the rolling stock. Consequently the demands on the open lines have altogether overshadowed the open fines have altogether overstandowed that provision of new hose. Even then the railway budget was found totally inadequate for the purpose, and a small committee set in London, under the charmanship of Lord Inchespe, to consider wave and means. This Committee found that the amount which committee found that the amount which could be remuneratively spent on railway con struction in India was limited only by the capacity of the money market They fixed the annual allottment at £12,000 000 a year. Even this reduced sum cannot always to recruid the second of the capacity of the second of the capacity of the second of the se be provided

#### Government Control.

As the original contracts carried a definite dovernment guarantee of interest it was necessary for Government to exercise strong supervision and control over the expenditure during construction, and over management and expenditure after the lines were onen for tradic For these purposes a staff of Consulting Bugineers was formed and a whole system of checks and counterchecks established leading up to the Railway Branch of the Public Works Department of the Government of India. As propagation of the covernment of rings, its propagation of the covernment of rings, out grew this dry nursing, and when the original contracts expired and the interests of Govern ment and the Companies synchronised, it became not only versious but unnecessary. Accordingly in 1901-02 Mr. Thomas Robertson was deputed by the Secretary of btate to examine the whole greation of the organisation and working of the Indian Railways, and he recommended that the easing system should be replaced by a Railway Board constitute of a Chairman and two members with a Secretary The Board was formally constituted in March 1905. The Board is outside but subordinate to the Government of India in which it is represented by the Department of Commerce and In-dustry It propares the railway programme of by the dustry I is prepares the rallway programme or expenditure and considers the greater questions of policy and economy affecting all the lines. Its administrative duties include the construction of the dustrial includes the construction of the dustrial includes the dustrial includes the construction of the dustrial includes the dustr too of new lines by State agency the carrying out of new works on open lines, the improvement of reliway management with regard both to comonly and public convenience, the arrangements for through traffic, the settle-ment of disputes between lines, the control and promotion of the staff on State thus, and the general supervision over the working and the general supervalon over the working and expenditure of the Company silnes. Two munor changes have taken place since the constitution of the Railway Board. In 1908 to meet the complaint that the Board was subjected to excessive control by the Department of Commerce and Industry, the powers of the Charman were increased and he was of the ORACTIAN were increased and he was of the MIRRIE HYDERSUNG-GOORACT heaving given the status of a Secretary to Government cannot be long delayed. All the Barnas have with the right of independent scores to the are on the metre gauge. Since the opening of lattre Council as the representative of the East-the two feet six inch gauge, there has been way interest. In 1912 in consequence of completely of the consequence of completely of the consequence of completely of the consequence of the six inch gauge, there has been disclosured in the interest of the consequence of the state of t

Board with the Companies, an informal sciences was undertaken by Lord Inchespe to reconcile differences. The constitution of the Board is now undergoing further inquire and the development generally favoured in the establish-ment of a Ballway Member of the Vicercy's Executive Council

#### Management

The Railways managed by Companies have Boards of Directors in London They are represented in India by an Agent, who has under him a Traffic Manager a Chief Engi neer, a Locomotive Superintendent, a Storekeeper a Police Superintendent, who is appointed by Government) and an Auditor The State Railways are similarly organised.

#### Clearing Bouse.

Proposale have several times been made for the establishment of a Clearing House but the distances are too great The work which would ordinarily be done by the Clearing House is done by the Audit Office of each Rallway

#### The Rallway Conference

In order to facilitate the adjustment of domestic questions the Railway Conference was instituted in 1876. This Conference was was instituted in 10 fb. Into consolidated into a permanent body in 1903 under the trile of the Indian Rallway Conference Association It is under the direct con trol of the railways, it elects a President from amongst the members, and it has done much useful work

#### The Indian Gauses.

The standard gauge for India is five feet arx inches When construction was started the broad gauge school was strong and it was thought adviable to have a broad gauge in order to reast the influence of cyclones. But in 1870, when the State system was adopted it was decided to find a more economical gauge for the open lines had oust \$17 000 a mile after much deliberation, the sector gauge of 5 fect 3 linebes was adopted, because at that time the idea of adopting the metric system for India was in the air. The original intention was to make the metre gauge lines provisional they were to be converted into broad gauge as soon as the trame justified it consequently as soon as the trains product to consequence, they were built very light. But the traffic expanded with surprising rapidity and it was found cheaper to improve the carrying power of the metre gauge lines than to convert them to the broad gauge So except in the indus Valley where the strategic situation demanded an unbroken gauge the metre gauge man-were improved and they become a permanent feature in the railway system. Now there is a great metre gauge system north of the Ganges connected with the Rajputana lines and Kathia war Another System in Southern India embracing the Southern Maratha and the South India Systems. These are not yet connected but the necessary link from Khandwa by way of the Nizam's Hydersbad-Godaveri Ballway

# STATISTICAL POSITION

In the report on the administration of the total outlay thus amounted to Re 4.65.88 35 In the report on the administration of the indian railways for the year 1914-15 an important departure is made. The whole history of the indian railway system is reviewed and the process which led to its evolution is expounded. The difference between State-owned and Statemanaged lines between State-owned and com pany managed lines, and between private lines and those constructed under Branch Line terms is explained. This history is to be included in all subsequent reports and should be studied by those who are in need of further information in the details of the Indian system

Capital.—The actual capital outlay (booked cost) on lines in which the State is financially cost) on these in which the state is meaning interested (excluding premis for the purchase of Companies lines) from the commencement of operations on all lines open at the close of the year 1914-15 amounted to Ba. 4 61 89 79 lakhs were expended on miscellaneous items

The actual expenditure during 1914 15 amounted to Rs. 17 15 lakhs, distributed as follows

Rs.
6 71 98,000
1 34,81 000
9 07 99 000
17 14, 78 000

# Results of Working.

The financial result of the working of the State Railways during the year 1914-15 is a return of Rs 488 lakhs. Out of this a sum of Rs 150 lakhs (£1 002 thousand) was expended and on lines then under construction to Rs Rs 150 lakhs (£1 002 thousand) was expended 3 08 19 lakhs. In addition Rs 91 37 lakhs in the form of annuity payments in redemption The of capital

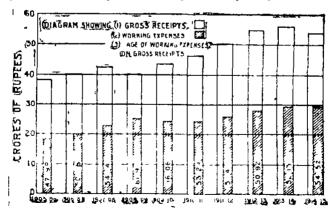
#### Yield Per Cent.

The gross carnings of all Indian railways during the year 1914-15 amounted in tound figures to Rs 6 042 01 lakhs compared with Rs 6 858 56 lakhs in 1913-14, being a decrease of Rs 3165 5 lakhs while the working expenses were only Rs 18 84 lakhs less than in 1913 14. The net earnings amounted to Rs 2 767 91 takhs against Rs 3 006 62 lakhs in 1913 14 or a decrease of Rs 297 71 lakhs. These net earnings yielded a return on the capital outlay (Rs 51 922 13 lakhs) on open lines to on mileage carming revenue of 5 33 per cent. as compared with 6 10 per cent in 1913 14. The corresponding actual return per cent for the previous years is compared as follows

190√	1906	1907	1908	1909	1910	1911	1912	1013 14	1914 15
6 07	5 96	86 د	4 33	4 81	5 48	5 87	6 77	6 19	5 33

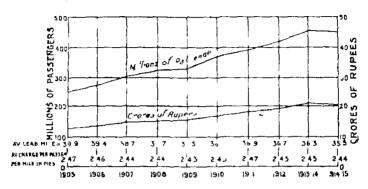
# Percentage of Expenses

The following diagram shows graphically the ratio of aggregato revenue expenditure to gross receipts of State lines worked by the State and Companies for the past ten years —



# Pastander farnings.

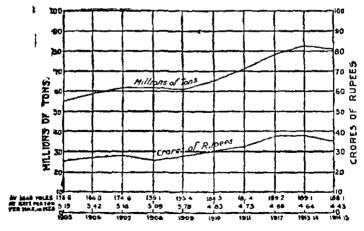
The number of passengers carried and the earnings therefrom are compared in the next diagram -



The degreese in the passenger traffic during the year under review was chiefly due to the effect of the war upon trade and to the absence of tourists and military officers from the country. But for the opening of new ralways and the movement of troops consequent on the war thus decrease would have been still greater.

#### Goods Traffic.

A similar comparison of the tonnage of, and earnings from, goods traffic is afforded by the following diagram —



The large failing off in the earnings from goods tradic which was not accompanied by a corresponding descrees in the quantity carried, was principally due to the low rated commodifies and not be war and taming conditions

Mileage.—During the year 1914-15 645 70 miles of railway were opened to traffic bringing the total mileage open (after allowing for minor corrections due to realignments, etc.) up to 82,285 miles The additional mileage was made up as follows.

	5 6" gauge	3 SJ gauge	2'-8" gauge	2 -0" gauge	Total
	Willes	Miles	МДев	Miles.	Miles
State lines worked by the State State lines worked by Companies Branch line Companies railways under rebate terms worked by the Branch line Com pany Branch line Companies railways under rebate terms worked by the main line Companies lines subsidized by the Government of India District Board lines Companies lines subsidized by District Boards Native State lines worked by Native States Native State lines worked by the main line Companies lines guaranteed by Native States	104 18 17 27 72 59	5 90 102 38 8 58 37 39 14 72	29 78 1 15 123 79 6 00 5 88 7 95 41 82 14 72	89 50 12 00	110 08 149 58 40 65 196 36 6 00 8 58 5 58 5 58 14 72
TOTAL	194 14	168 97	231 09	51 <b>5</b> 0	845 70

For the second year in succession the mileage on the 2 6 gauge opened to traffic during the year exceeds that on any other gauge. For the first time in the bistory of Indian railways the mileage of railways which have been completed by Companies who have obtained concessions on relative terms exceeds the mileage of railways which have been financed by any other one method and have been opened during the year. Of the total mileage of 237 financial in der these terms 210 miles have been constructed with money raised in India.

Ten Years Progress.-The progress made during the past ten years is summarised in the following table -

			3	illeage o	pened at	the end	of			
Gauge	1905	1906	1907	1908	1909	1910	1911	1912	1913 14	1914 15
5 67 3 3] 2 6 2 0	15 028 11 959 980 528	15,548 12,149 1 071 329	15 821 12,613 1 234 342	15 951 12 863 1 394 368	16 309 13,823 1 448 415	16 701 13,530 1 436 432	17 016 13 759 1 682 482		14,389 2,174	14,559 2,402
Total	28,295	29 097	80 010	80 576	81 490	82,099	32,889	33,484	34,656	35,285

Feeder Reliways—As noted in the intro-duction, efforts have been made to secure the participation of private capital in railway con-struction in India under what are called the branch line terms. In 1910 more liberal terms were offered for this purpose, and private enter prise was offered two alternative forms of assistance

(1) A rebate paid by the parent line from its net earnings from trame brought to it by the feeder reliway sufficient to make up 5 per cont on the paid up capital of the Brauch Line Company, the liability of the main line being however limited to the total of the net earn ings from this traffic.

certain cases when the Branch Line Company so desires a guarantee may be offered in res-pect of a portion of the capital of the Company and a rebate in respect of the remainder

During the year ending March 1914, Rs. 224 lakhe of capital were raised under the Branch Line terms for the construction of 341 miles of railway while the lines similarly financed during the year under review aggregated 877 miles and involved a total capital outlay of Rs. 197‡ lakhs. Negotiations were in addition concluded, and concessions granted for the construction of several other branch lines.

Notwithstanding the effect which the out (2) A firm guarantee from Government of a break of war has exercised on the money market.

3) per ornt, return on the paid up capital. In three out of the sight lines included in the

schodule were financed after its outbreak-s fact which tentifies to the popularity of Companies goated under the Branch Line terms Additional evidence of this popularity is fur nished by the fact that spart from the schemes for which concessions have actually been grant ed, there were under negotiation at the close ed the year 1914 15 proposals for the construc-tion of 2,876 miles of railway on the 2 6 gauge \$49 miles on the metre-gauge and 570 miles on the broad-gauge or an aggregate of 3,595 lay of nearly twenty crores of rupees or unwards of thirteen millions sterling

But however attractive the Branch Line terms of 1913 may have proved in respect of the better developed provinces of India, it was recognised that in Assam, owing to the undeve loped state of the country further inducements than those held out by the Branch Line terms were necessary if private capital was to be attracted to railway projects. It was accordingly decided that special terms should be offered for the construction of fallways in that province and a Resolution was issued in January 1915 which permitted the grant for a limited number of years after opening of a railway to traffic of a provincial subsidy of 1 per cent by the Amam Administration in addition to the Im perial guarantee of \$1 per cent The number of proposals for the construction of feeder lines In Assam, which have been put forward since the publication of this Besolution shows that the value of this additional concession is fully appreciated by the public-

District Boards —The part taken by the District Boards of the Madras Presidency in the development of railway communications in the Presidency is well known Since the year 1884, District Boards in Madras have been ampowered to levy a special cess not exceeding 3 ples per rupes of land revenue—the proceeds of this cess being reserved for the construction of feeder reliways intended to develop the districts which in snoe and own them.

The Tanjore and Kistna District Board Rail ways were for some years the only examples of lines so constructed but recently the example of those Boards have been followed in several other parts of the Presidency During the year under review, the following lines were under construction at the cost of local rands —

- (1) Podanur Pollachi (3' \$1") by the District Board of Colmbatore 25 miles
- in length and estimated to cost Re 111 laths.

  (3) Tenail Repaili Railway (5 6") by the District Board of Guntur 23 miles in length and estimated at Ra. 14 laths
- (3) Nidamangalam Mannargudi and Tirut turnipundi Vedarsniem Ballways (3' 31') by the Tanjore District Board, having a combined mileage of 311 and being estimated to cost approximately Bs 20 lakha

For various reasons no new District Board Estimate were actually sanctioned during the year, but at its close negotiations were in proyear, but at he came negotiating were in pro-group in connection with a number of important achieves, which it was hoped would shortly spateriolise.

To encourage District Board enterprise in other parts of India, permission to legislate for the levy of a railway one was extended during 1918 to all Local Governments desiring to introduce such legislation but it will proba-bly be some years before any of the Local Boards in these provinces have accumulated sufficient funds to commence the construction of branch rallways

Accidents.—The total number of persons of all classes killed by causes beyond their control was 76 against 117 and the number control was 76 against 117 and the number injured 329 against 270 in the previous year Out of a total of 461 09 millions against 466 0 millions of passengers travelling, and of 16022 86 millions of nules against 16 512 58 millions of miles travelled, 16 passengers were killed and 140 injured against 18 killed and and and the previous year. This give-an average of one fatal casualty in 28 19 millions against one in 8 04 millions of per sons travelling and an average of one 1 001 48 millions against one 286 4... in millions of miles travelled in 1914-15 and 1913-14 respectively This diminution in the number of fatalities cannot however be attributed to any decrease in the number of accidents. In the previous year an unusually large number of persons were killed two area denta alone causing the death of 56 persons

The following are particulars of the more serious train accidents —

A passenger train running through Sambhu station on the North Western Railway on the 20th November 1914 was pulled up by the driver in order to obtain permission to proceed to the nextstation This permit should have beenin the pouch which is picked up mecha-nically by the engine when a train does not stop at a station, but was missing on this occasion after some delay caused by the Assistant Station Master misdaling a second permit the of the station and while standing on this post tion was run into from behind by a mail train which was following Three vehicles were wrecked and 8 persons killed and 25 injured by the collision

The case was the subjet of departmental en outry as a result of which the accident was at tributed to the action of the Assistant Station Master in lowering the signals for the mail trein in contravention of the rules and so allowing that train to enter the station before the line on which it was to be received was clear. The Assistant Station Master was subsequently prosecuted convicted and sentenced to 2 years imprisonment and a fine of Rs 200

A goods train while ascending the gradies t passing through a tunnel near Igatpuri station on the Shat section of the Great Indian Punin sula Railway on the 15th October 1914, parted between the 2nd and 3rd vehicles from the lead ingengine and the rear portion ran back towards Thui Ghat Revending station where it collided with a down goods train standing outside the station owing to the points leading to No 3 catch aiding, which is provided for such a con tingency, being held over by the pointsman for the down main line instead of being showed to remain in their normal position for the esteir aiding Eight rallway servants were killed and twenty-two infured.

Two engines were working the train which was fitted with automatic vanuum brakes. On alderable trouble had been experienced in hauling thetrain up the gradient owing to the engine in rear-slipping and the train had on one occasion come to a stand in a tunnel situated lower down than the one in which it subsequently parted, owing to the vacuum brake connecting home pipe between two vehicles coming un coupled. In restarting the train that stail had neglected to restore this connection and conquently when the train parted in the tunnel further up by the breakage of a drawbar the rear portion ran backward down the grade and could not be controlled owing to the vacuum brake laving been rendered inoperative after the first stoppage

The staff at fault were dealt with department ally

The question as to the best arrangement of the catch siding points so as to obviate a recurrence of the kind is still under investigation

An up Baraboni Pilot coilided with a down Baraboni Pilot between Ondal and Sonachora stations on the kast Indian Railway on the 4th April 1914, resulting in the death of three rail way servants including the driver who was pri marily responsible for the accident and in juries to eight other railway servants. The rolling stock was also considerably damaged. the accident was due to the driver of the down Baraboni Pliot having started with a wrong line clear The Assistant Station Master of Sona chora was also responsible for the accident masmuch as he falled to give proper instructions as to the train for which the line clear was in tended or to ensure that his instructions were fully understood and properly carried out as required by the rules

The accident would have been averted, had the Assistant Station Master sent immediate warning to Ondai Junction cabin when he discovered that the down Baraboni Pitot had left with a wrong line clear The staff at fault were departmentally purished.

On the 21st May 1914 two third class carries of an up mixed train caught fire between Shedbal and Mirai stations on the Poons Branch of the Madras and Southern Mahratta Railway train was brought to a stand and it was found that an Indian woman and a child, who had but themselves up in the lavatory in the front arriage had been burnt to death and that out of the ten passengers who had jumped from the carriages whilst the train was in motion five had received slight and five serious injuries The two carriages were burnt to the under frames and, as the fire was burning too flercely to be extinguished the train was divided and the burning vehicles isolated. It is believed that the carriages were set on fire by a lighted cigarette being dropped by one of the passen gers into a window slot which was open at the bottom and to the current of air passing upwards between the inner and outerlinings of the window and faming the burning eigerette end into a flame.

To prevent similar conidents in future it has been suggested to Raliway Administration that some form of fire extinguishers be carried in the brake vans of mixed trains and that the bottom of window wells which are left open in certain carriages in order that articles dropped into the window slot might ordinarily fall on to the floor of the carriage be closed.

The Ceylon Boat Mail collided with a goods apecdal near Samudram station on the South Indian Railway on the 26th May 1914. An employee of the Bailway who was travelling in the rear brake van of the goods train was slightly injured but the damage to rolling atock especially in the case of the goods train was considerable

A storm the night before had blown down trees which had damaged the wires connecting the block instruments. This had necessitated the suspension of the ordinary method of working trains on the Absolute Block Bystem and resort to the working of trains under special rules and regulations framed by the Company to meet such a condingency. Neglect by the station staff of certain precautions imposed by these regulations led to the admission into the same block section of the mail and the goods train from opposite directions simultaneously and a further neglect on the part of the driver of the goods train of precautions as to speed resulted in the collision.

In investigating the cause of the accident it was found that the rules and regulations framed by the Company for the working of trains during the failure of telegraphic communication left too much to the discretion of the staff and it was consequently decided to revise the rules. The staff at fault were dealt with department ally

Early on the morning of the 20th November 114 a glancing collision occurred at Koruk kuppetta; a small station on the Madras and Southern Mahratta Railway in the outskirts of Madras

Two goods trains had to cross at this place. The up train arrived first and entered the loop siding. The down train was then received on the platform a line—it was a long train and was brought to a stand before the rare brake van had been drawn fully clear of the points. The fact of the points being fould appears to have escaped notice and the up train was permitted to resume its journey towards Madrae with the result that the engine collided with the rear of the down train and dersiled the last three vehicles on it.

The Assistant Station Master who was in a great measure responsible for the accident was found dead under one of the wagons. The guard of the down train who was equally responsible was prosecuted and sentenced to pay a fine of Rs. 150 or in default to undergo three months rimorous imprisonment.

Ballway Staff—The total number of servants in railway employ at the close of the year was 600 116 of which number 7 640 were Europeans, 10,845 Angio-Indians, and 582,131 Indians. Of the Europeans and Angio-Indians, 15,961 were enrolled as Volunteers. At the close of 1914 15 there were 10,664 children and 10,163 apprentices and workmen attending the Railway Schools.

# THE CHIEF RAILWAYS IN INDIA

The Assam Bengal Rallway which is constructed on the metre gauge, starts from Chittagong and runs through Surms Valley across the North Cachar Hills into Assam. It is worked under a limited guarantee by a company whose contract is terminable in 1921. The man line scan norm mileage of 84798. The total capital outlay is Ra. 1624 lakhs, gross carnings 68 lakhs net carnings, 17 lakhs and the percentage of not earnings on the capital outlay 1 07. The loss to the State for 1914-15 was Ra. 84 01 928.

#### Bendal and North Western.

The Bengal and Korth-Western Rafiway was contracted on the metre gange system by a company without any Government assistance other than free land and was opened to traffic in 1885. The system was begun in 1874 as the Turbut State Rafiway. In 1890 this line was leased by Government to the Bengal and North Western Rafiway. Since then extensive additions have been made in both sections. It is connected with the Rafiputana metre gange system at Cownpore and with the Eastern Bengal State Rafiway at Khatibar and the Outh and Robilkhand Rafiway at Ecares. The open mileage is 2,027 the total capital outlay amounts to Ra. 991 lakhs gross carnings 106 lakhs, net cardings Rs. 65 lakhs and interest divided between the Government and Company Rs. 68 lakhs presentage of total net income capital outlay Rs. 817 lakhs gross carnings Total capital outlay Rs. 817 lakhs gross carnings Rs. 26 lakhs, and percentage Rs. 270

# Bengal-Nagpur

The Bengal Nagpur Baluray was commenced as metre gauge from Nagpur to Chlatis garh in the Central Provinces in 1887. A company was formed under a pustantic which took over the line, converted it to the broad gauge and extended it to Howrah, Cuttack and Katni. In 1901 a part of the East Coast State Baluwy from Cuttack to Vizagapatam was transferred to it and in the same year sanction was given for an extension to the coal fields and for a connection with the Branch or the East Indian Baluwy at Harinarpur Open mileage 2.72785 under construction or sanctioned 283°33 total 3.011.08. The total capital outlay is Ba. 4.021 lakhs, gross samings Ba. 410 lakhs, not cannings 203 lakhs, percentage of net carnings on capital outlay is 5.03. The gain to the State is 47 lakhs.

#### Bombay Barods

The Bombay Baroda and Central India Rallway is one of the original guaranteed nallways. It was commenced from Surat vis Baroda to Ahmedahad, but was subsequently was terminable in 1880 but the period was extended to 1905 and then reserved under garden conditions. In 1886 the Ralportans was leased to the Company and has since been incorporated in it. On the opening of the Ragda-Muttra. giving broad garge connec-

tion through Eastern Rajputana with Delhi, the working was entrusted to this Company on the acquisition of the Company in April 1907 the purchase price was fixed at £11 685,681. The statistical working of the broad gaze abows a mileage of 998 80 the capital outlay 2 441 lakhs, gross earnings 841 lakhs, net earnings 165 lakhs, percentage of not earnings on the capital outlay 5 76 gain to the State 45 lakhs.

The metro gauge system of the Company shows a mileage of 1816 64 total capital outlay 1710 lakins, gross earnings 286 lakins, net earnings 182 lakins percentage of net earnings on the capital outlay 7.7 gain to the State 75 lakins.

#### Burma Railways.

The Burms Railway is an isolated line and although various routes have been surveyed there is little prospect of its being connected with the Railway system of India on account of the difficult and apartely populated country which intervenes. It was commenced as a State Railway and transferred in 1898 to a Company under a guarantee The Inleage is 1,841 85 total capital outlay Rs. 1772 laking, gross examings 216 lakins net examings on the expiral outlay 5 84 gain to the State 21 lakins. Bur ma extensions have a total inlicage of 235 18.

### Eastern Bengal.

The Rastern Bengal State Railway was promoted under the original form of guarantee and was constructed on the broad gauge. The first portion of the line rounning to Caloutza over the Ganges was opened in 1862. In 1874 sanction was granted for the construction on the metre gauge of the Northern Bengal State Railway which ran from the north bank of the Ganges to the foot of the Himalayas on the way to Darjeeling These two portions of the line were amagnanted in 1884 into one State Railway The open mileage is 1689 06, capital total outlay 3,501 kkhs, gross earnings 332 kkhs, net earnings 114 kkhs, percentage of net earnings on capital outlay 3 28 Lops to the State 18 kkhs.

# The East Indian,

The Rast Indian Railway is one of the three railways anothoned for construction as experimental lines under the old form of guarantee. The first section from Howarh to Pandias was opened in 1854 and at the time of the Muthry ran as far as Ranganj. It gives the only direct access to the port of Calcuta from Northern India and is consequently fed by all the large railway systems connected with it. In 1860 the Government purchased the line paying the shareholders by annutifies, but is a contract which is terminable in 1919. The open mileage is 2,716 48 under construction or sanction 59 67, total 2,800 18. Total capital outlay (or 3,445 miles Rs. 70% lakin, gross carnings I 036 lakin, not carnings Rs. 626 lakins, percentage of net surnings on capital outlay or approximate of the State 236 lakins.

### Great Indian Peninsula

The Great Indian Penhaula Railway is the carliest line undertaken in India. It was promoted by a Company under a guarantee of 5 per cent. and the first section from Bombay to Thane was open for tradic in 1853. Sanction was given for the extension of this line was proon at Raichur where it connects with the Madras Railway and to Jubbulpure where it the Madras Railway and to Jubbulpure where it the factors of the line is the passage of the Western Ghats these sections being 164 miles on the Bhore Ghat and 92 miles on the Hore Ghat and 93 miles on the Thul Ghat which rise 1181 and 972 feet. In 1900 the contract with the Government terminated and under an arrangement with the ludian Midland Rail way that line was amalgamated and leased to a Company to work. The open milesge is 3 088-66, under construction or sanction 205 50 total 3 364-66. The total capital outlay on the Company s own system of 2,496-64 miles is 6 257 lakhs, gross carnings, 771 lakhs, not earnings 286 lakhs, pross carnings on capital outlay 4 57 gain to the State 8 1-lakhs.

#### Madras Rallway

The Madras Bailway was the third of the original railways constructed as experimental lines under the old form of guarantee. It was projected to run in a north westerly direction in connection with the Great Indian Peninsula Bailway and in a south westerly direction to Calicut. On the expiry of the contract in 1907 the line was smalgamated with the South ern Mahratta Railway Company a system on the metre gauge built to meet the famine conditions in the Southern Mahratta Country and released to a large Company called the Madras and Southern Mahratta Railway Company and released to a large Company called the Madras and Southern Mahratta Railway Company and released to a large Company of which will be suffered to the Southern Mahratta Railway Company and released to a large Company and was system of 2,651 33 miles is 32.88 lakhs, gross earnings of ret earnings on capital outlay 6 04 loss to the State 44 lakhs. (The annuity payment is Ra. 73 lakhs)

# The North Western.

The North-Western State Railway began its existence at the Sind Punjab-Delhi Rail way which was promoted by a Company under the original form of guarantee and extended to Belhi, Multan and Lahore and from Karachi to Kotri. The interval between Kotri and Multan was unbridged and the railway traffic was exchanged by a ferry service. In 1871 72 sanction was given for the connection of this by the Indus Valley State Railways and at the same time the Punjab Northern State Rail way from Labore towards Peahawar was begun in 1888 the Sind Punjab-Delhi Railway was acquired by the State and amalgamated with these two railways under the name of the North-Western State Railway It is the tongest railway in India under one administration. The opened mineage is 5 29 83, under construction or sanction 188 68, total 5 487 90 The statistical results of the working of the State owned 4,010-48 miles are total outlay Rs. 85 87 laking, percentage of carrings on expital outlay 3 55, less to the State of outlay 3 55, less to the State is liking.

# Ouds and Robilkhand

Outh and Rolilkhand Rallway was another of the lines constructed under the original form of guarantee. It began from the north bank of the Ganges running through Rohllkhand as far as Saharanpur where it john the North-Western State Rallway It was not until 1887 that the bridge over the Ganges was completed and connected with the East Indian Rallway To effect a connection between the metre gange systems to the North and those to the Bouth of the Ganges, a third rall was laid between Bhurlwal and Cawmpore. The Company's contract expired in 1889 when the Rallway was purchased by the State Rallway The opened mileage is 1714 04 under construction and sanction 64 55 total 1778 59 The total capital outlay on the State Railway The opened mileage is 1714 04 under construction and sanction 64 55 total 1778 59 The total capital outlay on the State saytem of 1682 miles is 2 215 lakhs, gross earnings 208 lakhs net earnings 91 lakhs percentage of net earnings on capital outlay 4 12. Loss to the State was 2 lakhs.

#### The South Indian.

The South Indian Rallway was one of the original guaranteed railways. It was begun by the Great Southern India Rallway Company as a broad gauge line but was converted after the seventies to the metre gauge. This line has been extended and now serves the whole of the South mindia, south of the south west line of the Kouth mindia, south of the south west line of the Madras Railway. Between Truticoria and Ceylon as farre service was for merly maintained, but a new and more direct route to Ceylon are Rameshwaran was opened at the beginning of 1914. As the original contract ended in 1907 a new contract was entered upon with the Company on the 1st of January 1908. The open mileage is 1,762-82 under construction or sanction 87 31 total 1850 18. The statistical results of the working of the Company's system of 1466 17 miles gives a capital outlay 1875 lakhs, gross earnings 272 lakhs, net earnings 115 lakhs, gross earnings 272 lakhs, net earnings to capital outlay of 6 14 gain to the State 36 lakhs.

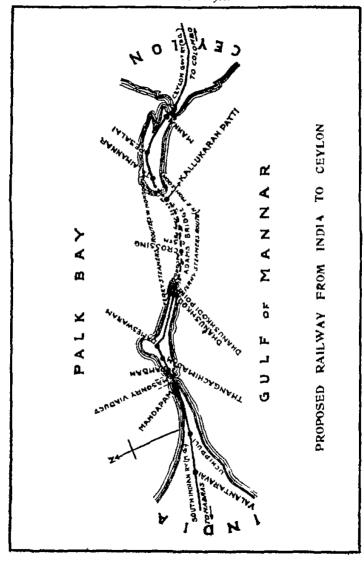
### The Native States.

The principal Native State Railways are The Nizams, constructed by a company under a guarantee from the Hyderabad State the Kathiawar system of railways, constructed by subscriptions, among the several Chiefs in Kathiawar the Jodhpur Rikaner Railway, constructed by the Jodhpur Bikaner Railway, constructed by the Jodhpur and Bikaner Chiefs the system of railways in the Punjab constructed by the Patials Jind, Maler Kotla, and Kaahmir Chiefs and the railways in Mysore constructed by the Mysore State

# The Sara Bridge.

The Lower Ganges Bridge at Sara was formal ly opened to all kinds of traffic on 4th March 1915 and was named the Hardings Bridge

The necessity for bridging the Ganges at some point in lower Bengal arose from the Increasing volume of traditio of all descriptions and kinds which has now to be carried in both directions over the Restern Bengal Railway between Caloutts and Northern Bengal and Assam Hitherto the tradit has been taken across the Ganges in barges supplemented, as the tradit increased by meter and broad gauge wagon ferrirs. The



constant changing of the river channels the ristability of the river oas a the souder reduce of traffic when the main staples (jute tea rice, etc.) have had to be moved, and the break of game of the Ballways on the Northern (metre) and Southern (broad gauge) banks of the Ganges have for years combined to produce conditions with which neither the Rallway and ministration nor its clients were content. The Bridge is an engineering work of greater magni tude than any previously undertaken in the East and takes its place as one of the most interesting and important engineering works of the world. The bridge consists of 15 spans of 345 14 girders from centre to centre of bearings with three land spans of 75 each at each end, with three land spans of 75 each at each end, giving a total length of 5,900 feet, that is to say approximately i miles. It carries a double he of rails and a footway for pedestrians. The foundations consist of wells sunk from 150 to 160 feet below low water level. This great depth was considered necessary owing to the alluvial nature of the soil in the river bed and its liability to be scoured to a depth of 100 feet. The wells carry masonry piers the tops of which are at high flood level, while on the plers are iron treaties 341 feet in height, which in turn carry the girders. Each well weighs about 16 000 tons and the wells and piers and tresties of the entire bridge weigh over 900 000 tons

A headway of 40 feet above highest-flood level has been provided to permit of the free passage of river craft of all kinds at all seasons Some 29 million cubic fret of stone have been used in the bridge and training works com-bined At highest flood not less than 21 million cubic fret of water flow under the bridge per second

Each span of girders weighs 1 250 tons and there are 30 000 tons of steel work in the whole Before the design of the girders was taken in hand a careful inquiry into the maxion the standard gauge might be expected to attain was carried out. The result of this in quiry was to show the desirability of enhancing the scale of loading in the case of this bridge

The existing scale laid down in 1908 as a stand ard for all India was accordingly increased. For Chord Members the moreage amounted to of 4 per cent for Web Members to 12 per cent, and for Fisor Members to 20 per cent This is equivalent in respect of the main girders to a train of vehicles weighing 1 6 tons per foot havied by two 8-wheel coupled locomotives with 20 ton axie loads on each of the coupled wheels and in respect of the floor system to an 8-wheel coupled locomotive with 28-ton axis loeds on each of the coupled wheels Some 1700 000 rivets were riveted up at site. For this pneu matic and hydraulic power were employed in the construction of the masonry of the bridge cement concrete was freely used, concrete blocks weighing from 6 to "tone each being moulded in the blockyards and after being allowed to set, carried to the works and used in place of bricks Riectricity was employed for the trans mission of power over the whole of the work. The cost of the whole work is estimated to amount to some 360 lakes of rupees made up of 100 lakes for the River Training works, 72 lakhs for the approaches and 188 lakhs for the Bridge structure proper

The construction of the Hardinge Bridge will very largely remove the inconveniences to which the traffic has hitherto been subjected, although transhipment of the greater part of the traffic from matre to broad gauge will still necessary at one or more points north of the river. This transhipment will now however be carried out in permanent tranship yards the site of which will not depend on the vagaries of the river while the very great expanse of maintaining a farry service under unusually unfavourable conditions will be avoided thus bringing about large savings in working expenses moreover the greater rapidity and certainty of transport is expected to result in a very great increase in the volume of traffic on existing lines while extensions such as the Bara-Serajganj Railway now under construction will bring much new traffic which the Eastern Bengal Railway with out the bridge would have been unable to deal with

### INDIA AND CEYLON

has been reported on from time to time since 1895 various schemes having been suggested.

The South Indian Railway having been extended to Dhanushkodi the southernmost point of Rameswaram Island, and the Coylon Gov. ernment Railway to Talaimannar on Mannar Island two points distant from each other about 21 miles across a narrow and shallow strait, the project has again been investigated with the idea of connecting these two terminal stations by a railway constructed on a solid embankment raised on the sand bank known as

Adam's Bridge to supersede the ferry steamer service which has been established between these two points.

In 1913, a detailed survey was made by the bottom. Lastly the space enclosed by the South Indian Railway Company and a project has now been prepared. This project complisive the openituding of a consessway from to six feet above high water level, and the rails

The possibility of connecting India and Cey ! Dhanushkodi Point on the Indian side to Talai lon by a railway across the bank of sand extend manner Point on the Ceylon side a length of ing the whole way from Rameswaram to Mannar 20 05 miles of which 7 19 will be upon the dry land of the various lands and 12 86 will be in water The sections on dry land will consist of low banks of sand pitched with coral and present no difficulty The section through the sea will be carried on a causeway which it is proposed to construct in the following way A double row of reinforced concrete piles pitched at 10 feet centres and having their inner faces 14 feet apart, will first be driven into the sand. These piles will then be braced together longitudinally with light concrete arches and chapts and transversely with concrete ties struts and chains Behind the piles slabs of reinforced concrete will be slipped into position the bottom slabs being sunk well into the sand of the sea

will be laid at that level. The sinking of the piles and stabs will be done by means of water jets. This causeway it is expected, will cause the suspended sand brought up by the currents, to settle on either side bringing about rapid socretion and eventually making one big island of Rameswaram island and Mannar island.

If this method of construction is adopted, it is estimated that the total cost of the causeway and works at the two terminal points our — Dhanushkodi and Talazmannar will be ap proximately 111 lakhs.

#### Indo-Burray Connection.

The raids of the Emden in the Bay of Bengal in 1914, and the temporary interruption of communications between India and Burma stimusted the demand for a direct railway con nection between India and Burma, Govern ment accepted the position and appointed Mr Richards M. Inst C E to be the engineer-in-charge of the surveys to determine the best route for a railway from India to Burma The coast route appears to be the favoured one. This would start from Chittagong which is the terminus and head quarters of the Assam Bengal Railway and a seaport for the produce of Amen. The route runs southwards through the Chittagong district, a land of fertile rice fields intersected by big rivers and tidal creeks and it crosses the Indo-Burma frontier 04 miles from the town of Chittagong For about 160 miles further it chiefly runs through the fertile rice lands of Arrakan and crosses all the big tidal rivers of the Akyab delta. These include the Kalidan river which drains 4,700 miles of country and even at a distance of about 30 miles from its mouth is more than half a mile wide About 200 miles from Unittagong the rallway would run into the region of mangrove awamps which fringe the seasonet north and south of the harbour of Kaukkphu stretching out into the mangrove swamps like ribs from the backbon innumerable spurs of the railway the survey parties were withdrawn

Yorks in a Arrakan Yoma have to be oroused, mountain ridge which extends from Cape hemais northwards until it loses itself in a mass of tangled hills east of Akyab and Chittagong At its southern end the beight of the ridge is Insignificant but it has peaks as high as 4,000 feet before it reaches the attitude of Sandway and further north it rises much higher It in a formidable obstacle to railway communication between India and Burms This route is estimated to cost about \$7 000 000 and would have to be supplemented by branch lines to Akyab where there is at present a considerable rice traffic and the cost of this would have to be

added to the £7,000 000 already referred to
The other routes examined have been the Hukong Valley route and the Manipur route many years ago The Manipur route is esti-mated to cost about £5 000 000 as it has to cross three main ranges of hills with aunimit levels of 2,650 3,600 and 8,900 feet long. Altogether there would be about four miles of tunnelling through the three main ridges and through other hills and more than 100 miles of expensive un dulating railway with grades as steep as 1 in 50 and 11,000 feet of aggregate rise and fall Hukong valley route seems to be the cheapest one as it is estimated to cost £3 500 000 This line is only about 284 miles long and it presents fewer engineering difficulties than either the Coast or the Manipur route One hundred and fifty mike of this route lie in open country capable of cultivation though at present it is only very thinly populated. Only one range of hills has to be crossed and this can be negotiated with a summit tunnel of 5 000 feet long at a height of 2 500 feet. There are less than fifty miles of very heavy work and only about 4,500 ft aggregate of rise and fall

Later in the year when severe oconomies had to be practised, and it was clear that funds would not be available for the purposes of the

	-			,				3, 7,000
Particulars.	1901	1908	861	0161	1911	1912	1913-14	191410
MBeage open at close of the calen Miles	20 057	80,578	31 490	33 (199	32,839	83 484	34 658	35,286
Total Capital outlay, including forties and maprime on open lines (in thousands of rupoes)	3,91 86 93	4 11 91 71	02 88 02.4	4 39 04 78	4 50 08 80	4,66,15 00	4,95 08 64	\$ 19,22,1\$
Green earnings (in thousands of rapess)	47 30 51	44 82,49	47 06 38	51 14,23	55 27 92	61 65 07	83,58,56	60,42,01
Gross earnings per mile open	15 794	14 663	14 948	15 936	16 833	18 412	18,350	17,123
Gross camings per mile open per week	308	282	287	306	#48 8	354	<b>8</b>	2
Gross earnings per train mile	3 79	3 51	3 67	888	3 87	<b>7</b> 0 <b>7</b>	4 07	78 57
Total working expenses (in theu sands of rupees)	24 32 21	27 04) 2 ,	26 38 48	27 15 72	26 83 92	30 15 92	32 03,04	82 74 10
Working expenses per mile open	8 121	8 833	9 380	8 462	8 783	9 007	F09 6	92,79
Working expenses per train mile	1 95	X 11	8	2 0.4	20 8 8	<b>25</b>	2 11	<b>9</b> 8
Percentage of working expenses to gross earnings	51 42	20	93	63 10	58 17	76 8 <b>7</b>	81 79	64 19
Net carnings (in thousands of Ra	22 88 20	17 82,44	20 67 90	05 86 82	26 44 00	81 49 15	30 66,52	276791
Not earnings per mile open	7 673	5 830	6 568	7 474	8 051	907 6	8 846	184
Not earnings per train mile	184	1 40	1 61	1 81	1 86	8	8	1 70
Percentage of net carnings on total capital cuttay (Mora ?) - Per cent	5 86	4 33	<b>4</b> 83	9 7 9	5 87	4 77	6 19	20
train miles (in thou Train-miles	43 258	47,885	161 89	48 698	50 833	68 093	56,972	215

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Particulars.		1907	1908	1900	1910	1911	1912	1018 14	1014 15
Goods train miles (in thousands) Trai	Train Miles	16 869	44 875	17 065	47 690	58 210	59 993	67 983	64,839
Mixed train rolles (in thousands)	nde)	30 142	39,94	30 850	81 986	83 746	34,940	34,681	85,514
Total, including miscellaneous train miles (in thousands)	meory .	124 786	182,481	128,260	1\$2,823	142,944	1,2,761	150,276	1.67 142
Unit-mileage of passenge thomsands)	patrengers (in Unit miles	11,840 649	12,102 929	12,364 579	13 432 477	14 372,943	15 818,972	16,614,088	16 023,849
Freight ton mileage of (in thousands)	goods Ton-miles	10 840,885	9 925,830	9 340,441	12 002,916	12 002,910   13 858 264	16 628 595	15,623,235	15,225 957
Average miles a ton of goods was carried	E Was Miles	174 58	159 07	158 37	184 39	187 44	199 15	162 11	188 04
Average rate charged for carrying a ton of goods one mile	Trying Pies	6 18	88	5 78	\$8 \$	4 73	38	79	4 48
Average miles a passenger ions carried.	1801 4								
lat class End class Interresedate class	M 1 1	100 80 70 80 19 93	100 17 88 88 88 88	108 22 24 26 24 26 26	\$ 75 25 25 25 25 25	76 37 76 37	100 54 74 77 51 90	118 46 74 68 51 13	25.5 25.5 35.5
and obsers Beason and Vendors tickets Total	ī	39 65 9 31 86 71	38.28 32.8	28 72 29 89 37 54	87 12 8 79 86 15	37 78 8 78 87 88	97 81 9 64 86 72	87 46 8 72 8 80	88 88 94 88 95 88
d toroge rate charged per passenger Int class Red class Intermediate class	Presenger Ples	2 44 2 45 2 45 2 45 2 45 2 45 2 45 2 45	12 95 5 76 8 04	78 80 94 94	14 55 6 87 8 15	14 29 6 73 8 10	14 25 6 64 9 18	400 401	233
fird class Season and Vendors' tickets Total	. 1	ot ≃ ot 80.44	282 282	84 4 4 84 4 4	하 64 85 승규	2 H 2 B 2 H 2	844 844	24 th	844 844
						_		_	١

\* Mileage of Bailway Lines in India open for Traffic at end of year

E STEPPE	2041	Š	9	 8	704	one.	1	2	1	
Agn Dalli Chord, 67175 LARR	778	120	120	126	1286	126	881	1186	200	868
Worth Worth	101				•	1,	3,	₹.	3,	\$,
Manage Andrews	1,082	100	1 690	1 695	1 734	1 774	1 791	1 808	1.852	1,564
Married Materion	<b>a</b> :	51 5	ដូ	<b>5</b> 1:	# F	<b>5</b>	<b>a</b> :	<b>;</b>	ផ	ត:
Manual Law Remode & Control India	X04	Š	35	95	100	2 2	618 103	202	43	2,7
The state of the s	1 387	3	1 8.6	9	1,475	1.527	1.587	1,527	1 527	1,1
Compagne Barbwal	86	86	<b>36</b>	<u>2</u>	8	8	83	88	38	81
Total Indian	1.035	1 983	1.072	2,165	2.208	2.213	25.2	2.218	9.200	2.831
Barton Brigal	220	071	1,235	1 272	1.274	1.874	1,603	98	1 510	1,570
<b>Society</b> -Chands. Greet Inflan Penhanis.	1 562	1.568	1 548	1 6.62	1 6.62	25	2009	262	181	121
Inches Maland	808	802	808	810	810	813	818	818	+	
bedings Hydersbad*	124	181	124	184	124	3	124	2	.25	3
Forthet Provincial State	2	8	2	252	80	었	80	8	27	28
Julyachpore Gondia"	77	*14 *24	200	247	33	3	£ E	9	25	5
Training Training	8	8	8	8	8	8	3 25	88	2 65	3 5
Lactnow Baredly	283	283	287	237	237	282	137	287	629	Ä
Madras and Southern Mahmetta.	2,550	2,563	2 639	3	2,047	2,543	2 646	899	290 8	8,568
Moregon-Diatric puri	8	906	906	18	200	18	3 8	500	3	3 15
Handle-Mutters.		ì		ì	[2]	187	880	830	8	<b>!</b>
Magner Chhind warn		1	ļ	•	į	1	-	-	3	ਫ: -
Name of the last o	200	17	17	11	7.7	8	33	200	8	
Monthly Western	9	97	9	9	3	9	33	9	500	3
Ordh and Roblithand	1011	1 168	1 166	1,213	1.88	1 223	1,231	1,827	3	1,58
Palen pur Decas.	17	11	17	1.7	7.2	11	7.	11	21	7
Median-District	8	3	20	22	25	22	22.	2	223	
Relocions-Malwa	679 1	1 688	1 782	1774	1,778	1 778	1778	1,778	1 778	_
South Indian	1 123	1 123	1 128	1,168	1 201	1 323	1 883	1,523	1 823	20:
Southern Man Makes Throughout Louison	2	9	2	2	2	33	3	3	2	23
Thebook	517	200	300	75	2	776	778	276	2	2
Tird patter-Krahmagiri	5	14 KM	3 3	3 80	088 88	2 40	07 686	2777	2 0	3
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# Milesge of Railway Lines in India open for Traffic at and of year-contd

Assistant Compartment Assistant Compartments and Dholks Abmonland Parantil	7 100	180	1906	1906	1907	1908	1909	1910	1101	191%
Dholks Paranti!	-									
	883	88	80 10	83.6	55.3	33	833	88 56	25	#8
irrab-Sasaram Light				ន្ត	<b>8</b>	33	84	75	35	32
bakhtlarpur Bebar Light krosset-Basirhat Licht	18	81	878	18	138	18	81	<b>8</b> (2	381	22
	8	엃	38	2	25	26	2.5	3.5	110	ř
engal and Korth Western Jennal Docum	831	871	25	932	1015	1 017	1 092	1117	1 176	1,17
bracks Mascullpatem	 } 		}	}	ì	\$	23	200	88	33
echag-Binatayan	- 2	10	19	19	19	15	51	19	22	8 Z
Delhi Umballa Kalka	162	162	102	162	162	162	162	192	108	102
	-	æ 92	0 0	r g	o g	ro ar	- Q	6	<b>~</b> °	_1
Hardwar Dehra	8	23	28	250	2	28	25	88	200	B #
Gowtah-Amta Gowtah-Rheathate	ಷಣ	58	88	83	22	<b>4</b> 8	40	<b>4</b> 8	<b>3</b> 8	<b>48</b>
ndender Doeb		 i	ļ	3	-	,	;	;		8
Group Khas-Ihudo				-	27	 2	200	28	200	28
Triple Ebst-Khadro	**	5	2	5	2	3	2	7	_	_ 8%
Powsyca Light	- -	19	12	3	\$	3	<b>19</b>	3	39	33
ballihand and Kumson	<b>Z</b>	99	3.5	118	171	203	202	202	225	928
Shebdara (Dolbi) Sabaranpur Light Borth Bebar	7.0	62	8	7.9	25	5 F	862	200	20	2
contlara Pm(sb	425	425	503	98	929	575	575	578	576	23
Capter District Board*	8	66	8	103	103	103	108	<b>3</b> 50	32	2
	105	155	155	155	126	155	155	156	155	32.
Parpur-Ballpars	18	នេ	ଞ	8	ន	ន	ន	ន្ត	8	ន
<b>Chaken-Daykasalk Light</b>	90	<b>30</b>	on	<b>B</b> 0						
Total	2,144	2 400	2,629	2 887	3 117	8,207	8 353	3 969	\$ 903	4 018

These are the latest figures published in 1915

t Mileage of Rallway Lines in India open for Traffic at end of year-confd

Kailways	1903	1904	1905	1906	1907	1906	1909	0161	1911	2918.
Urasustro contanus										_
Dobri Robias Light Sagadari Light Lodo and Thak Margherita Colliery	= 	03	•	<u> </u>	•	•	9	•	400	<b>3</b> ∞•
Medoya Light Farakrahwar Magru Light	7	g	33	33	83	ŝ	33	88	83	æ 🛱
Total	3	27	48	8	27	7	39	8	8	2
NATIVE STATE LANGS										
Bhaynagar Gondal Junagad Porbandar	334	334	83≰	334	334	338	838	874		
Design of the state of the stat	<b>‡</b> ;	3	<b>‡</b> ;	#:	3;	7	77	**	77	27
Bus Goors Baran	146	146	146	146	199	146	140	146	941	33
brar binoga.	2 7	8.5	388	337	23:	828	8 8 9	871	<b>4</b> 33 4	88
Diology Ban			2	7	2	នន	88	à <b>8</b>	≅ <b>3</b>	8
Dhraigadra Gaekway's Dabbol*	78	25	21	21 22	21.55	ಷಕ	2 2	2.2	29	128
<b>Sackwar's Mebsana</b> * Condal Portsander	88	69	88	93	86	38	138	138	881	188
Jenior Light"	55	184	184	184	184	203	95.2	925	[g:	95
History Branch	7 6	10	5 8	5 6	3 3	5 5	3 3	5 5	3 5	123
dyderabad Godavari vallny fabrita	146	381	38	38	23	182	13	781	252	3 22
smoot and Kashmir	2:	9;	2;	2	23	91	91:	2:	2	2:
Automagni February Deliver	25	4 4	40	70	2.5	4	35	2.5	<b>Z</b> \$	3 \$
Talkane Differen	Ę	200	Ş	2004	200	200	77.0	8	i	ğ

\* Worked by a Company

# Mileage of Railway Lines in India open for Traffic at end of year—conti

Abuncdabad Dhoitea AgentryD Conkeaning.  Agentean-Patting. Agentean-Patting. Backlitangue Behar Light Backlitangue Behar Behar Behar Backlitangue Backlitangue Behar Backlitangue Batklitangue Batklitang	55 55 18 18 163 163 163 163 163 163 163 163 163 163	23 26 26 26 26 26 153 163 163 162 162 163	88 286 286 118 286 288 288 168 168 168	1 0 1 6 8 1 1 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1	200 200 200 200 200 200 200 200 200 200	88.58	2		
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Agentii  In Light  In Ligh	# A	28 28 28 28 20 153 162 162	55 26 26 37 26 37 168 168 168	55 28 18 26 26 1016 153 153	1017 1017 1017 1017 1017	52.0		2	
a Light Schur Light Schur Light Act John Orth Workern Siperam Sirelam Act John Inchiyan I Kalka I Kalk	~···	26 26 26 26 26 153 162 162	28 28 28 28 15 16 16 16 2	28 18 20 70 1016 153	28 1017 1017 163 163	9	20	26	8
ebar Light bet Light oct Decem of Decem		18 26 26 88 901 153 162	18 26 70 933 163 163	18 25 25 1 016 1 158 1 1	18 26 70 1017 163 49	3	25	7	Z:
haf Light orth Western hibrary hibrary Light Lig	<del></del>	26 26 26 153 163 162 162	26 20 932 168 168 163	1016 1016 163 61	1017 1017 163 49	86	8	500	5 &
orth Western  afgetan  afgetan  inaliyan  i Kalka  i Kalka  inaliyan  i Kalka  i Kal		901 153 162 162 63	70 932 168 61 61	1016	1017 163 48	198	12	3.5	i a
orth Western Sipetum Myrapor Light Makyar Kalka  A Kalka		901 153 162 162 5	933 168 168 163	1015	1017 153 40	200	202	116	120
officers of the state of the st		153 51 162	168	158	153	1 098	1 117	1 176	1.17
officers of the control of the contr	···	162	61	51	<b>9</b> 12	168	163	163	3
urrapout Agens  Kalka  Rain  R	···	162	61 162	150	13	25	30	200	2
rates a responsibility of the responsibility	···	20.5	168			- 19	19	3.5	RS
r Kalka ra thata hydo Rhado Asarro famulpar Jaganathgan;		162	162	180	_	;	ļ	;	}
n thata had Thadro (smulpur Jagannathgan)		2		907	162	162	108	102	Ş
ra thala ab ab Thado Khadro fazulpur Jagannathgan;		•	,	•	•	•	•	+	+
na thain hado Khadro karalpar Jagannathgan;		78	78	78	48	82	8	8	2
ichala h h Rhado Kandro Kanulpur Jagunathgan	_	35	- S	었	8	88	200	35	22
thals sh Rhado Rhadro Aguntathgan;	_	87	28	20	\$	44	#	‡	Į
Josep has-Thadro Chas-Ebadro Jack Jamelput Jegunathgan;		= 몳	08	 2	8	8	<u></u>	2	RS
has-Indo has-Khadro igh-Jamalpur Jagannathgani Lizht			_	2	-	-	7	:	3 =
has Khadro the Jamelpur Jegunsathgan! Lisht		_		or or	91	22	12	32	18
th-Jamelpur Jegunathgan! Labt			_	_		3	3	;	2
Light	21	51	89	3	54	24	65	55	28
<u> </u>	3	<b>Ş</b>	3	ş	9	05	40	<b>\$</b>	3
Boldfillend and Permater	2	3	-	1	600	606	9U6	8	986
ann Ciabt	- -	5	-		9	6	5	3	S
_		70	70	25	. 2	2.	200	20	2
Coutteen Puntab	425	505	680	575	675	675	576	578	2.5
	_					1	8	ŝ	2
	86	9	3	S:	2	203	202	200	3:
Table Valley	200	100	607	200	CG 8	66	200	28	3
Therman Rollings	8	Ç	8	ន	18	8	ន	S	ន
alk Light	8	æ	œ						1
Total 2 444	2 490	9,620	2,887	8 117	8 207	8 358	8,669	8 903	4,013

† Amalgamated with East Indian Railway

. Worked by a Company

† These are the latest figures published in 1915

† These are the latest figures published in 1915

t Mileage of Railway Lines in India open for Traffic at end of year-conta

Radions	1903	1904	1900	1906	1907	1908	1909	0181	1181	1912.
Unassisted Companies						\				
Debri-Robtas Light sgedbri Light		_							<b>7</b> 1°	
Ledo and Tilink Margherita Collier) Indaya Lisht	= -	۰	œ	6	8	٠	9	9	•• 	
farakashwar Magra Light	31	8	88	33	£.	33	33	88	<b>8</b>	42
Total	of .	a a	42	43	27	43	39	8	8	22
Mative State Lines										
Bhavnaghr-Gondal Jungad Porbandar	434	334	134	334	384	338	338	374		
Bloom Terri	1	17	1	77	77	3	7	7	158	
Shoped Ultake	113	113	113	113	118	118	113	113	E	
Sing-(600g Baran Pine Olivera	146	<b>\$</b>	97	148 8	148	97	146	146	971	
Cooch-Betar	37	8 🛪	88	8 %	8 2	3 5	2 3	233	8 8	
Outob District Beat			21	12	22	9	88	60	33	
Darwardza	68	27	63	21		3 5	35	85	35	
Meckwar's Dabboi	13	98	ă	č	13	6	ă	12	12	
<b>andwa</b> r's Mehanoa* bods! Postandar	86	86	93	86	3	130	138	138	8	
Swaller Light	127	184	184	184	184	807	250	250	- C	
Hinderper*	19	51	19	51	19	51	27	51	120	
Hyderabad-Godavari Vallry*	391	391	391	391	391	391	391	391	301	25
'albar,			01 c	35	73	23	73	5. 5.	2	22
Land Arthrole	=======================================	23	23	2.3	91	93	2	2	2:	2:
ctables: Raikot	2	\$	***	**	* <b>9</b>	4	\$	: 2	: 3	3
od bane-Riesaes	200	200	Š	200	200	200	924	891	9	8

· Worked by a Company

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Hallways	1908	1904	1905	1906	1907	1908	1909	1910	1911	1918
NATIVE STATE LIES confd.										
Junggad Kinapur-Chechran Kalar Gold Fleids*	01	70	10	98	00	91	91	25	\$ 83 A3	결제요
Establicae Rosambs Rasistra	<b>3</b>	87	ន	8	8	67	79 PH	8	<b>2</b> 3	
Ladbana Dhart-Jakhai Borra Borrahanj	83	22	238	228	228	900	9 60 4	223	5 8 8 5 8 8	288
Mymore-Ranjangud* Magda-Ujjana Parladinodi MgNt* Pribadinodi MgNt* Pipar Road Babyi Licht	<b>22333</b>	22838	22828	25 25 25 25 25 25 25 25 25 25 25 25 25 2	51.20.83 20.	23822	52882	248848	228822	228222
Rafpiple* Rafpiple*	107	107	107	107	107	107	107	107	107	28,
Rengil* Shories it Cochis*	8	23	20 2	33	. <b>2</b> 5	- 13 2	- <b>3</b> 3	-23	-22	
Transversy-transvers Udahyur-Cuttorpara Vijapur-Kalci-Kadi	67	253	253	\$64	852	863	253	25.4	864	
Fotal	3 265	3 385	3 488	8 471	8 517	3 620	3 742	3 852	8 974	4,198
Former Lives Former Productory Foreignery West of India Portuguese	15 8 81	18 81 51	15 8 61	35 8 51	218 813	15 8	16 8 51	21 25 25	202	34 8 12
Total	7,	7.4	7.4	7.4	7.4	7.6	7.4	7.4	72	7.4
Grand Total	26,956	27,565	368,82	29 097	30 010	30,576	31,490	82,099	34,839	29,484
" Worked by a Company	t These	ormeny v	sorked se	† Formerty worked as part of the Bhavnagar-Gondal-Junagad Porbandar Radiway These are the latest figures published in 1915	Bhavna I in 1915	nr Gonda	1-Junaga	Porband	lar Railw	

# Irrigation.

In the West irrigation is a rare luxury de-should be constructed through direct agency, since where it exists to increase the production and should be constructed by the State freezivity of a soil sure of a certain crop under a loan funds as productive public works. tivity of a soil sure of a certain crop under a copious and well distributed rainfall. In great parts of the East, and expectally in India, it is a necessity to existence. For in India there are large tracts, such as the deserts of Sind and the bouth West Punjab which are practically rain less there are others, such as the Locan plateau, where outdivation is exceedingly prac-carious, owing to the irregularity of the rainfall and the long intervals when the crops may be exposed to a blasing sun and a deseticating wind, there are some crous like rice and super-cause there are some crops, like rice and sugar-cane, which, except in a few highly favoured districts, which, except is a rewingly revorted instance, can only be matured by the aid of irrigation. There are great areas where a single crop which is called the *kherif* or rain crop can in normal years be raised by the unassisted rainfall, but where the second crop, the rabt or cold weather crop, is largely dependent on irrigation Inas-much as in India sixty-five per cent of the popu main as in income sixty—we per cent of the population is still dependent upon agriculture for the means of livelihood this brief summary indicates the enormous importance of irrigation to the community

#### Its Early History

It is natural, in such conditions, that irrigation in India should have been practiced from time immemorial. In the history and imagery of the Rust there is no figure more familiar than the well, with primitive means for raising the water well, with primitive means for raising the water followed to-day much as they were in Bible days. In the early records of the peoples of India, dating back to many years before the Christian ors, there are frequent references to the practice of irrigation. Wells have been in use from time immemorial most of the in-numerable tanks in Southern India have been in use for many generations—the practice of drawing off the flood waters of the Indus and its tributaries by means of small intudation canals has been followed from a very early date—and in the submontane districts of Northern India are summanated districts of northern india are still to be found the remains of ancient irri-gation channels, which have been buried for centuries in the undergrowth of the forests. But in the direction of constructing large and scientific works for the utilisation of the surplus waters of the great river little was done before the advent of British rule, and they are com paratively of recent date

### The State Intervenes.

Irrigation works in India may be divided into three main heads—wells, tanks and canals. The greatest and the most impressive are the canala, and these may arrest attention first, because they constitute one of the most enduring mona they constitute one of the most enduring monn means of a tunnel time means to British rule. They have in British rule the Madras Governme on its watershed and in the early days of modern irrigation, certain out by a guaranteed company, and the Oriss, canal project was commenced through the same agoncy Both Compasses fall into difficulties, and the system into dislavour, during the seasons of drought, the and this system into dislavour, during the seasons of drought, the that all frightion works which presided the remomerative wor that all frightion works which presided the remomerative work that all frightion works which presided with the remomerative work that all frightion works which presided the remomerative work that all frightion works which presided with the remomerative works which presided the remomerative works that all frightion works or the capital expenditures.

# The British Inheritance.

The British Government in India inherited a few major irrigation works. One of these was the Grand Anieut—the local term for barrage the triand amout—the local term for parings— stretching across the width of the Canvery River in Madna. In the Punjab there were a few canals, chiefly inundation—that is above the normal bed of the river and ted from the flood current—constructed by the Rubammedan and Blkh rulers, and owing to its proximity to Delhi the waters of the Jumpa were brought to the neighbourhood of the city by the Maghala. It is doubtful if these works ever irrigated any considerable areas or conferred much benefit on the people, but they suggested the model on which the British engineers worked. In South ern India, Bir Arthur Cotton constructed the upper Ankut across the Coleroon River so as to secure the full level required for the utilization of the Grand Ankut across the Canvery He also designed the works which constructed and improved at an outlay of three crores, irrigate more than two million acres in the Godaveri and Kistna deltas in Northern India Sir Probya Cautley constructed the great Ganges Canal, which takes off from the river near Hardwar and which in magnitude and boldness of design and which in magnitude and boldness of design has not been surpassed by any irrigation work in India or elsewhere. In this way were laid the foundations of the irrigation system in India. The work was gradually pushed for ward. In Northern India a great system of canals was constructed, chiefly in the Punjab and the United Provinces. Some of these like the great Chenab Canal, ought to be claused amongst the wonders of the world. It irrigates nearly two million acres, or about two-liths of the cultivable area in Egypt, with an ordinary discharge of eleven thousand cubic feet per second or about six times that of the Thames at second or about six times that of the Thames at record or about ax times that of the Inames as Teddington The Chonab and the Jbelam Canals brought under irrigation great areas of Government waste, and thereby allowed the system of State colonisation, which relieved the congestion on the older villages of the Punjah, and established colonies of over one million of and established counted of over one million of people on what had been the desplate abode of a handful of nomashs. In the Bombay Decasa a few protective works were constructed, like Lake File and Lake Whiting drawing their supplies from the Gheta and spliling them over the arid tracts of the Deccas. In Madras there was completed the boldest and most imaginative interestication. irrigation work in the world by the device of constructing a reservoir at Pertyar on the outer slopes of the ghats, and carrying the water by means of a tunnel through the intervening hill. the Madras Government turned the river back on its watershed and poured its waters over fortile lands starved by want of moisture. But these Decean works did not pay. The ceiti-vators would not use the water in years of good rainfall, and there was not enough to go far in seasons of drought, the inevitable result of such conditions was to concentrate attention upon the remementive works on the freez of he Punish, and to knye protective brigation to

The Irrigation Commission.

In order to substitute policy for spannodic effort, the Irrigation commission was appointed by Lord Ourson's Government in 1901. It by Lord Curson's Government in 1901 It made a detailed survey of the conditions of the country, and produced the report which is the foundation of Indian Irrigation policy to-day The figures compiled by the Commission Illustrate the progress which had been made up to that period. They showed that out of an area of 226 million acres sommally under crop in the trigasting provinces of British India in round numbers 44 millions acres, or 191 per cent. were colliarity irrigated Of the total area irrigated 184 million acres or 42 per cent. was watered by State works (canals and tanks) and 254 million State works (canals and tanks) and 254 million acres, or 58 per cent, from private works of

which rather more than one half was from well-During the previous quarter of a century the area irrigated by Government works had been increased by 8 million acres, or by eighty per cent and the Commission estimated that during the same period the area under private brigation had increased by at least three million acres or a total addition to the irrigated area in British Indle of 11 million acres or 33 per cent. Includ ing the Native States the area under irrigation annually within the British Empire was piaced at 58 million acres (19 million from canals 16 million from wells, 10 million from tanks, and 8 million from other sources) The financial results for works of all classes are shown in the following table -

Class of Work	Capital Outlay to end of 1900-01 Lakbe of Rupees.	Interest charges at 4 per cent on Capital Outlay Lakhs of Rupers.	Net Revenue in 1900-01 Lakhs of Rupees	Net Revenue less charges for Interest. Lakhs of Rupees.
Major Works Minor Works for which capi tal accounts have been kept. Other Minor Works	96 63 72 320 04	146 55 12 80	259 70 19 18 87 87	113 15 6 88 87 87
Total	\$9.83.76	159 35	386 76	207 40

In round numbers the State irrigation works then yielded a net revenue after meeting all charges, including interest of about two crores of rupees and irrigated annually over nineteen million acres

#### The Commission 5 Programme.

The Commission reported that the field for the construction of new works of any magnitude on which the net revenue would exceed the interest charges was limited, being restricted to the Punish Smd and parts of Madras tracts for the most part not hable to famine. They recommended that works of this class should be constructed as fast as possible, not only because they would be profitable investments but also because they would increase the food supply of the country Then addressing themselves to the question of famine protection they worked out a very interesting equation. Taking the out a very interesting equation. Taking the district of Sholapur in the Bombay Decean, perhaps the most famine susceptible district in India they calculated that the cost of famine: relief in it was 5 lakes of rupees a year. From this deduction, and making allowance for the advantage of famine avoldance as compared with familie relief, they mid that the State was just: sed in protecting the land in such a district at a sout of 221 rupess per acre. For the general protection of the Bombay Deccan they recom-mended canals fed from storage lakes in the Ghats, where the rainfall has never been known to hall even in the driest years. For Madras they recommended the investigation of the old Tungabhadra project, and of a scheme for storage work on the Kistna. They proposed that Government should make take the construction of protective works for the rice-growing districts of the Central Provinces and the Ken Canal project in Bundekhand. The Commission more comprehensive acheme for the irrigation son further sketched out a rough programme of of the Jech and Rechna and lower Barl dealer

parts of India, which would cost not less than 44 crores of rupees and would result in an in-orease of 6 500 000 acres to the irrigated area. They estimated that the construction of these works would impose a permanent yearly birden of nearly 74 lakins on the State, through the crasss of interest charges on capital cost over the net revenue produced from the works Against this would have to be set the reduction in the cost of future famines resulting from the construction of the works, which the Commission put at 31 lakins per annum. The balance of 45 lakins would represent the net annual cost of the works to the State, or the price to he paid for the protection from lamine which the works would afford, and for all other indirect advantages which might be attributed to them.

#### The New Policy

The principal effect of the Irrigation Commisalon a report was to substitute policy for spanmode effort, and the progress since made has been remarkable. The action taken on the recommendation of the Commission is thus summarised by the Government of India in their last annual review

Punjab Triple Project.—In the year 1901 a project was submitted to the Government of India for the irrigation of the lower Bari doab by means of a canal taking out of the subject it was suggested to the Irrigation Commission that it would be more advantageous to carry out this work as an adjunct of a new major works to be constructed in different. This scheme relied on the possibility of utilising the ample surplus waters of the Jhahum river to serve these vart areas, thus leaving the Suite and Beas waters free for utilization in the Suite and Beas waters free for utilization showed that this idea was feasible and the project consisting of three distinct systems, the Upper Jhelum, the Upper Chenab and the Lower Barl Doab canals was sanctioned in 1904. It has now been practically completed the only important work which still remains to finish being the headworks of the Upper Jhelum canal at Mangia. It was hoped that the Upper Jhelum canal at Mangia It was hoped that the Upper Jhelum conat the remaining link in the chain, will be opened in December The total estimated cost of the combined system is 10½ crores of ribses.

Sind Sagar Canal.—The Irrigation Commission expressed a hope that it would be possible in the future to undertake the construction of a canal drawing its waters from the Indus for the irrigation of the wide expanse of desert in the Mianwall and Muzafiargarh districts known as the Sind Bagar doeb The investigation of the project has been deferred until other far more promising schemus are advanced.

Woolsr Lake Storage.—It was suggested to the Commission that the Woolsr lake in Kashmir should be on verted into a storage reservoir for the purpose of sugmenting the water supply of the Triple project. This proposal was however dropped in 1905 because the dovernment of India were advised that the areas to be served by the Triple Canal system would not require more water than was already available in the rivers from which the canab durived their supplies. It has since been found however that the dredging operations by lowering the bed of the lake have diminished the flow of the Jirlium river at cortain periods It will consequently become necessary to construct a dam across the Jheltun in order to give an adequate supply of water to the several systems dependent on the sold weather supply of the river and the Government of India have recently ordered the preparation of a project for this surpose

Suite Valley Project.—The Commission drew attention to the possibility of increasing irrigation in the Suitely valley by the construction of wairs on the riverso as to give a more assured and regular supply of water in all seasons to the critising British inundation canals in that tract Subsequent in vestigations have shown that a more extended system of irrigation is possible by which the Native States of Bahawaipur and Bikasir would also benefit. A preliminary Project is now under investigation

Sind.—The question of converting the net work of incudation canals in Sind into perennial channels by means of welrs across the river Indus has been considered at various intervals during the past 50 years. As a result of the invastigations that were made a soleme was drawn up for the construction, at a cost of some 47 crores, of a barrage at Sukkur with a canal on the left bank which would have been the largest irrigating channel in India. The project as drawn up did not meet with the approval of the technical actions of the Secretary of State and it is being further investigated by the Boombay Barbasers.

Rombey Deceme —The Chankapur project has been finished the Godavar canals are approaching completion while work on the Eravara project is in progress. The Nira Right Bank canal project was sanctioned and commenced in 1912. In respect of size and cost it is the most important irrigation work of the protective class undertaken in India. The work involves the enlargement of the reservoir on Lake Whiting which feeds the existing left bank canal so that the capacity of the reservoir will be increased from 6 300 to 24,800 million cubic feet. A canal 109 miles long will be constructed and the waters will be distributed by 4 branches and 63 distributaries. The work which is estimated to cost 257 lakhs of rupees and to occupy eleven years in construction will afford protection to a tract in the Shotapur district which has the reputation of being one of the most liable to famine in the whole of India. Another important protective scheme the Gokak canal has revently been sanctioned by the Servetary of State. It contemplates the protection of some 49,600 screen in the Bilspur and Belgaum districts in Britist in the Highpur and the Native States of Kolhapur Mindhol. Jamkhandi, Sangli and Kurundwad at a cost of Rs 197 lakhs.

Madras.—The Commission recommended the investigation of three very important works for this presidency exc the Tungabhadra project, and the Kistna and the Cauvery Beser voir projects, betaled investigations have shown that the first could not be carried out except at probibitive cost and the project has accordingly been abandoned. The other two promise to prove productive The plans and estimates of the Cauvery project which will involve the construction of the Isrgeat dam of its kind in the world, have been approved by the technical advisers of the Government of India. The consideration of the project cannot, however be turther proceeded with until a settlement has been arrived at in respect of the claims of the Mysore Durbar in the wasters of the Clauvery River Plans and estimates for the Kistna Reservoir project have also been prepared and are being revised in the light of certain suggestions made by the Inspector General of Irrigation in India A project to reclaim Divi Island, a fertile deltaic tract at the mouth of the Kistna, by means of flood banks and to irrigate this area by a pumping installation which was approved by the Irrigation commission has been carried out.

United Provinces.—The Commission deline ated in rough outline a project for the utilization of the waters of the Sarda river in Ondh for supplementing the supplies of canal systems which derive their water from the Gauges and Junna rivers. The proposals were thoroughly investigated, and a project estimated to cost some 61 cores was prepared on the lines suggested by the Commission. In view of certain difficulties inherent in this scheme the Government of the United Provinces has drawn up an alternative project, estimated to cost Rs. 350 lakhs which is now engaging considerations.

lakins which is now engaging consideration.
The Commission recommended the investigation of can als from the rivers flowing through Bundelithand, and the Mirapore and Allaha-

the Bankwan Reservoir project, and many other smaller schemes. The result is that the trans-Jumna Districts of these Provinces which were previously so hable to famine are now fairly well protected.

Control Provinces.—A number of small but very useful tanks designed to protect precarious tracts from famine have come into existence as a result of the measures taken charges for maintaining and operating the existence as a regul of the measurements which continue Commission a recommendation to the Commission a recommendation to rook, and also all interest charges, the naddition three large can also stems known as the Tendula, the Weingangs and the Mahanadi twenty four years ending with 1910-11 was can also which will derive their supplies from the £25,087,835 and this more than regard the rivers after which they have been named have been sanctioned. The last named has aircady come into operation

Results of the New Policy We can now turn to the results of this activity

had Districts. The investigations have resulted The following table shows the developments but Districts. The investigations have resulted [189 Juneary moss move are divergenced in the execution of the Kon and Dinasan canals, effected on works now in operation in the title Binkwan Reservoir project, and many twenty-four years anding with the triuming other smaller schemes. The result is that the [1908-11. The percentages of the advancements 1905-11. The percentage in the accomments in this trientham over the figures of 1887-80 are Capital outlay 55 irrigated area 68 net revenue 125 return on capital outlay 45 and on not profit 200.

> The average capital outlay for the triennium 1908-11 was £31 491,255 After meeting all the 220,007,030 and this more than repaid the entire capital outlay on the works in operation from the commencement of British rule up to the end of the period mentioned. In the following table the areas are in millions of scree and the amounts in millions of pounds sterling.

Triennlan.	Capital Outlay	Area.	Value of Crops.	Direct Profit to Government.	Percentage of Net Revenue on Capital Outlay
1908-11 1908-08 1908-05 1908-02	31 49 30 32 28 78 26 66 25 01	22 10 21 86 20 09 19 05	51 74 48 25 43 66 39 67 87 40	2 28 2 08 1 68 1 55 1 58	10 76 10 44 9 71 9 68 10 00
1 <del>895-09</del> 1893-06 1890-95 1887-90	22 94 21 68 20 42	14 49 18.85 13 16	29 88 26 87 24 38	1 63 0 88 0 76	8 25 7 60 7 51

The results for the last year when figures are available (1913 14) are given in a subsequent page The following striking table shows them for the latest briennium -

	Capital Outlay (Direct and Indirect) to end of Year	Gross Receipts	Working Expenses.	Net Recripts	Percentage of Net Receipts on Capital Outlay	An a irrigated
	£	£	Ł	£	1	Actes.
Major Works	41 100 185	4 499 123	1 838,761	3,160 862	7 69	15 242,939
Mhor Works	4 396,422	344 676	151 774	192,902	4 39	1 710,506
Total for 1918-14	44 496 807	4,843,799	1,490 535	d 263,264	7 87	16,9 9 445
Total for 1912-13	43,442,258	4,543 262	1 449 296	8,093,966	7 12	16,490 160
Total for 1911 12	41 510 000	4 116,000	1 590 000	2,725,000	6.6	17 099,000

situatings of hrightion. They are —The studies of the country is greatly increased the railway recepts are enhanced famine ex he rallway recepts are enhanced famine ex-penditure is diminished and misery and economic becomes reduced Nor do they take account of the progress made in Native States, some of which, like Gwalior and Mysore, have shown pusspisacess liberality

#### Fature of Irrigation.

It is nemetimes asserted, by these who take this is the a secretarial view of Indian irrination that militans)

These figures take no account of the indirect, we are approaching the end of the programme systems of indication. They are —The of productive works. There could be no greater indices of the country is greatly increased famine or . There is now under consideration, as applicated. in the section where the action taken on the Commission arecommendations is summarised, a project for the improvement of irrigation in a project for the improvement of irrigation in Sind, by the construction of a were at Sakker and the digging of a series of main canals, the substitution of personals for immediation canals, and flow instead of lift irrigation. The cost of this is estimated at Ra. 721 larker (62 SIII millions). This solutions is settimated to confer

the benefits of assured irrigation on 1,847,847 acres, which now receive a precarious supply and to add 588,708 acres of new irrigation. The and to and ose, to acress or new irrigation. The return on capital expenditure estimated at 5 10 per cent with an enhanced land revenue, and 4 17 per cent if the land revenue is not enhanced. The Lower Suttle Canal in the Punjab which will use the Beas water now under investi gation will urigate a million and a half acres.
The great Sarda-Ganges-Jamna feeder in the
Punjab and the United Provinces now under
investigation would cost \$4,500,000 return 7 per cent on the capital, and benefit twenty five districts and three Native States. If after the construction of the Sukker Barrage there are found to be surplus waters in the Indus, the Titanio Sind-Sagar scheme may become practi-cable. The scope for irrigation in India is apparent from the fact that in addition to works under construction or sanctioned, there are under consideration or investigation estimated to cost Ba 4 330 to Rs 4 657 lakhs of rupees

#### **Economic Changes**

Nor does this estimate represent anything like the full possibinties of programm in Indus-The country is undergoing a great economic revolution. The rise in the prices of produce revolution the increased economic strength of the people are making profitable works which a decade ago were economically impracticable. This process were economically impracticable. This process will continue. The indirect benefits of irriga-tion are more fully realised. In no case is this more marked than in the radway receipts. The Chenab and the Jaclum canals have been the principal factors in converting the North Western Railway from a drain on the Exchequer into a source of profit. The accumulation of capital, the spread of the co-operative credit movement the increasing use of power such as oil engines working pumps and cheap electricity from hydro-electric projects, will bring under cultivation millions of acres of fallow and waste It may be said with confidence that for a generation at loast the demands for irrigation in Indu will more than absorb the money producing power of the Government.

#### irrigation Dues.

The charges for irrigation whether taken in the form of enhanced land revenue or of occu-

constancy of the demand, and the value of irrigation in increasing the outturn. In the immediate vicinity of Poons a rate of Ra. 50 an acre is paid for sugarcane. This is quite an exceptional rate it obtains over only a limited exceptional rate it obtains over only a limited area and is made practicable only because the cultivators, by high manuring can rathe a erop valued at nearly eight-hundred rupers an error. On other parts of the Mutha, canal the indevaries from Rs. 40 to Rs. 12 and on other canals in the Bombay Deccan from Rs. 25 to Rs. 10 per acre. In Madras the maximum rate for sugarcane is Rs. 10 and in the Ponjab it does not exceed Rs. 8-8. The rate charged for the varies in Madras from Rs. 5 to 2 and for the varies in Madras from Rs. 6 to 2 and for rice varies in Madras from Rs. 5 to 2, and in Bengal from Rs. 2-8 to Rs. 1-8 per acre. In Bengal from Rs. 2-8 to Rs. 1-3 per acre. In both these provinces irrigation is practically confined to rice in the Punjab where this crop is not extensively grown the rate varies from Rs. 3-4 per acre. The ordinary rate in the Punjab for wheat which is the principal crop varies from Rs. 3 to 2-8 per acre. The average rate realised from major works for irrigation of all kinds is about Rs. 3-8 per acre. The average rate realised from major works for irrigation of all kinds is about Rs. 3-8 per acre. the provincial averages being Rs. 1 9 in Sind and Bengal Rs. 3-4 in the Punjab Rs. 4-8 in Madras, the United Provinces and the Bombay Deccan The charges for irrigation may be taken as varving from 10 to 12 per cent of the value of the crop except in Bengal and the Bombay Deccan where the average is little more than six per cent. more than aix per cent.

Canals and Navigation.

Twenty years ago a great deal was heard about the desirability of constructing navigation canals, either in conjunction with irrigation. or for transport pure and simple. The idea is now exploded. It received a certain stimular from the unprofitable character of Indian rall ways and the handsome earnings of the irriestion works it received its quietus when the rallways turned the corner Broadly speaking rathways turned the corner promuly apearing it may be eald that navigation and irrigation rights clash navigation is not only costly but it cannot be maintained during the season of short supply, except to the definent of irriga-tion. Outside the deltak, tracts of Bengal, Orlsse, Madras and Bind navigable canals will never be of much use for the purpose of inland newer be of much use for the purpose of inland the form of enhanced hand revenue or of occur navigation. There is however considerable piers and owners rates vary very much depending on the kind of crop, the quantity of heclities for navigation on the great river system water required, the quality of the soil, the intensity or now engaging the attention of the Government.

#### WELLS AND TANKS

So far we have dealt only with the great mri gation scheme. They are essentially exotic disproportion between the two systems, it must the products of British rule, the real eastern instrument is the well. The most recent figure is crossed the possibilities of well irrigated area in hids as being under wells. Moreover the well is a being under wells. Moreover the well is an water san raising the level. as being under wells. Moreover the well is an extremely efficient instrument of irrigation. When the cultivator has to raise every drop of When the cultivator has to raise every drop of water which he uses from a varying depth he is more careful in the use of it well water time. They may be just holes in the ground, exerts at least three times as much duty as sunk to subsoil level, used for a year or two and canal water Again owing to the cost of lifting, then allowed to full into decay. These are stimuted that well irrigated leads produce at its generally used for high grade crops. It is estimated that well rings watered land water of the water of the canal water of the water of the canal water of the wate

tion by a single canal scheme tend to reduce the

#### Varieties of Wells.

sands, or in the sandy wastes of Bikanir where the water level is three bundred feet below the surface, to still more. The means of raising the water vary in equal degree. There is the pleated or weighted lever, raising a bunks of the call of a physted pole, just as is done on the banks of the Rile. This is tarely sawd for life beyond fifteen feet. For greater life bullock power is invariably used. This is recognilly the proposed to the water of the plant of the same or better become the proposed to the same of the proposed to the same or better because the same of the same or better the same of the same of the same of the same of the same or better the same of the same generally harnessed to the mot, or leather bag which is passed over a pulley overhanging the well, then raised by bullocks who walk down a ramp of a length approximating to the depth of the well Sometimes the mot is just a leather bag more often it is a self acting arrangement, which discharges the water into a sump auto matically on reaching the surface. By this means from thirty to forty gallons of water are raised at a time and in its simplicity and the case with which the apparature can be constructed and repaired by village labour, the mot is unsurpassed in efficiency There is also the Persian wheel, an endless chain of eartherware reream wheet, an endless chain of carthenware pots running round a wheel. Recently attempts have been made, particularly in Madras, to substitute mechanical power, furnished by oil engines, for the bullock. This has been found economical where the water supply is sufficiently harge, especially where two or three wells can be linked. Government have aystematically finked Government have systematically encouraged well irrigation by advancing funds for the purpose and exempting well-watered lands from extra assessment due to improvement These advances, termed taken, are freely made These advances, between takers, are treety made to approved applicants, the general rate of a refuge in famine they are often quite useless interest being 64 per cens. In Madras and inassuch as the rainfall does not suffice to fill seems youts who construct wells, or other them and they remain dry throughout the works of agricultural improvement, are exempt season. The value of the crops raised on irriftens enhanced ascessment on that account. in gated lands in India in 1913 14 was Rs. 81 other provinces the exemption lasts for specific crops.

periods, the term generally being long enough to recoup the owner the capital sunk

#### Tanks.

Next to the well, the indigenous instrument of irrigation is the tank. The village or the roadwide tank is one of the most complements features in the Indian scene. The Indian tank may be any size. It may vary from a great work like Lakes Hile and Whiting in the Bombay Presidency or the Pertyar Lake in Travancore bedding up from four to seven billion cubic feet of water and spreading their waters through great chains of canal to the little village tank irrigating ten acres. They date back to a very early stage in Indian civil sation. Some of these works in Hadras are of great size, bolding from three to four billion cubic feet, with water spreads of nine miles. The inscriptions of two large tanks in the Chingiput district of Madras, which still irrigate from two to four thousand areas are said gate from two to four thousand arres are said to be over 1 100 years old Tank irrigation is practically unknown in the Punjab and in Sind, but it is found in some form or other in all other provinces, including Burms and finds its highest development in Madras In the ryotwari tracts of Bombay and Madras all but the small est tanks are controlled by Government. In the zemusdari tracts only the large tanks are State works. According to the latest figures the area irrigated from tanks is about eight militon acres, but in many cases the supply is extremely precarious. So far from tanks being

#### CANAL COLONIES.

The canal colonies represent the extreme access, and the whole colony is now as well case of improvement in agricultural conditions cultivated as aimost any part of India. The effected by integration. In the Punjab uphands work of colonisation began in 1892 by 1907 new watered by the Lower Chenab and Lower the population had increased to over 791,000 factors. Canala, irrigation has completely and at the end of 1901-02 some 2,470 square attend the face of the country so that it say miles out of a total allottable area of about authoring a hundred to every one of its former powerly-stellers. Applied the same as the land one of at 500 square miles had been allotted. In authoring a hundred to every one of its former powerly-stellers, while knot one of at 500 square miles and the area actuarly remained as a gift sells with case at £15 an acre allotted at 2,870 square miles while the total to over 1111.000. remed as a gift sells with case at £15 an acre. The inspect of the canal colonies, the Chonab Calony on the Lower Chenab Canal, lies in the Hechas Doah, between the Chenab and Bavi Elvers, and has a total area of some \$,900 square miles. This area was until 1692 squarely hubsited by nomad pastoral tribes, whose total numbers were estimated at less than 70 000. Cultivation was rendered possible only by the construction of the Chenab Canal. As fast as the canal and its distributaries were constructed, the land (which was waste and owned by Government) was allotted to various classes of grantes, the bulk of the grants being made to immigrant peasants, including men from the best agricultural districts in the men from the best agricultural districts in the taken, and 1911 the population of the colony. Province. Since his foundation the colony proper increased from 72,734 to 161,906. Up has enjoyed remarkable prospectly. The notable acquired the sense of the late of the late of the selected, though without any previous know selected, though without any previous know. The Chemian Colony, a mesch smalles colony of hear new selections with extraordinary on the Bart Doal Cami in the Labore District, on the Bart Doal Cami in the Labore District,

2,660 square miles had been allotted. In september 1912 the allottable area was returned at 3 040 square miles and the area actually allotted at 2,870 square miles while the total population had risen to over 1111 000. The export of wheat from the Lyallpur district in the last year of the decade reached the total of 150 000 tons.

The Jhelum Canal Colony on the Lower Jhelum Canal, occupies some 900 equare miles of State land in the Shahpur District, and is a more recent development. Colonisation began in 1902, and was conducted on lines similar to those adopted in the Cheast Colony but a large proportion of the grants were made on the condition that a suitable mare should be maintained for breeding purposes. Be-tween 1906 when an informal centur was takee, and 1911 the population of the colony proper increased from 73,734 to 161,806. Up to September 1912 some 639 sequene miles had been allotted out of an allottable area of about

dating from 1897, was returned in 1812 as in another way the result that the former making a total allottable area of less than 130 intellegation of the peasants right to an inadman square miles, of which practically the whole right of occupancy was intended to schieve.

had been allotted. The population was 16,468 in 1901 and 43,494 in 1911
Other old canal Colonies in the Punjah such as the Sohag Para Colony in the Montgomery district, and the Sidhual Colony in the Montgomery district, had by the beginning of the period ander review reached their full development and become merged in the arrrounding dis-tricts. Before the end of the decade coloni sation in the never colonies also had been practically completed, and their administra-tion had been almost completely assumitated to that of ordinary districts.

Colonisation has also been carried out on a considerable scale since 1901 on the Jameso Natrat, and Dad canals in Sind.

Schemes for colonisation on the canals in cluded in the Punjab Triple Canal Project

h we been propared

A concession of some importance was made to peasant colonists in the Punjab in 1910 when it was decided to allow them to purchase

triction of the peacent's right to an inalterents right of occupancy was intended to schleve.

In the Administration Report for the Punish, 1913 14 the condition of these colonies is thus described -The Lower Chenab Lower Jhelum and Chunian Colonies continued to prosper. Allotment in those colonies is now almost at an and though still presenting features in administration which require special attention, their administration is assimilating more and more to that of an ordinary district. It is in those new colonies that enterprise and a progressive spirit should specially appear and this is evident in the rapid progress of the co-opera-tive movement in all three in the establishment by private enterprise of towns such as Warburby private our prime of the success of the Zaundar Trading Company in the Lower Jhelum Colony which sold 87 lakhs worth of grain during the year Re-assessment on the Lower Chenab has resulted in a substantial increas of revenue and the re-assessment on the Lower Jhelum has been scoepted without when it was decided to allow them to purchase demur. Preliminary work in the Lower Barl proprietary rights, on very favourable terms in all colonies except the Jhedun Colony. The local Colony is proceeding, colonisation has in all colonies except the Jhedun Colony. The local begun on the Upper Chenab and the concession was made possible by the passible full upper Jhelun Colony scheme has been subsoft the Alienation of Land Act, which secures initial to Government.

#### PRESENT POSITION OF IRRIGATION

During the year 1913-14 the total area irri in Bombay and Madras Nine are purely gated by all the productive public works inavigation works. The net revenue paid by excluding branches in Astive States of the works of this category amounted to Ba. 39 91,796 Punjab amounted to 16.32 500 acres To excluding navigation canals or a return of wards this total the Punjab canals contri 7 66 per cent on the capital outlay against butted nearly 7 million acres Madras 35 the 7 61 per cent, in the previous year Nearly United Provinces 3 and Sind 11 million acres all the milnor works in Sind return exceptionally in Behar and Oriesa an area of 810 000 acres high percentages. but as some large projects was attained The return on capital is highest in the Punjab where the canaly yielded 15 45 per cent The next province in this respect is per cent The next province in this respect is Madras where a return of 12 26 per cent, was realised in the United Provinces and Sind rialised in the United Provinces and Sind served by works of the returns realised were 8 10 per cent and acres. This figure 5 39 per cant, respectively. Details regarding under Burms vize found in Statement I. The return on productive works as a whole excluding those under construction and not earnfog revenue, was only revenue accountraction and not earnfog revenue, and the real enumer of the results account to the capital outlay.

Protective Works,-There were in opera tion 30 protective works which together irrigated a total of 553 200 acres. The most important works are the Ramtek reservoir in the Central Provinces the Betwa and Ken canala in the United Provinces the Bushikulya in Madras and the Nira and Godavari systems in the Bombay Presidency A number of small but interesting tank works are to be found in the Central Provinces. They were sanctioned as experimental works, in accordance with the recommendations of the Irrigation Commission in order to test how far the people were willing to resort to irrigation for the maturing of their crops and what water rates they were propared to pay The results obtained are gratifying and show that the people are beginning to realise the great advantage of irrigation

high percentages but as some large projects with which it is intended to amalgamate many with which it is intended to annigamate many existing works are under consideration their transfer to the major works class has been postponed for the present The total area served by works of this class was 2,250,700 acres. This figure includes the area shown under Burms was 489 570 acres which is not under actual irrigation but represents the area of cultivation on lands reclaimed by river

There are numerous works which maintain only revenue accounts. They are predited with a share of the land revenue depending on their maintenance and are debited with all expenditure incurred on construction, extension, improvements and maintenance During the year reviewed these works irrigated an area of 2} million acres and returned a net revenue of Rs 33.27 097

Practically all the works of the class which renormally an are worse or one class when have neither capital nor revenue accounts are situated in the Madras Presidency They consist of rome 37 000 tanks and irrigation channels mainly the former, the improvements and repairs of which are executed by the Public Works Department, or in the case of the smaller works, by dvil officers The areas irrigated by works of this class in 1913-14 aggregated to 3,275 200 acres. The area irrigated in 1912-12 Was 3,421,917 scres.

Minor Works.—There were 119 works so The Lower Chenab Canal continues to show classed in 1913 14, the majority of which are a record of remarkable progress. It serves

The Lower Judgm Canal also continues to consed a set back

show improvement, the net revenue having in net revenue on the Upper Suile Inundation Canals (21 75 on capital outlay against 5 65 Ganals (21.75 on capital values represents the better condition of the river and the canals the better condition of the river and the canals Left Bank Canal is the largest in the Decean the better condition of the river and the canals and lies in the south of the Foons District on those canal and so affected the collections

vantage until the Upper Jhelum Canal has

2.245,596 agree and carned a grow revenue of the autumn of 1914, but in April the river mars then Rs. 1544 latin. The not revenue bund breached, and the foundation pit and resulted from this canal was equivalent to deep cutting beyond were flooded. This accident to deep cutting beyond were flooded. This accident the canal was

Rombay Deccan.—All the important protective irrigation works in the Bombay Presidency are situated in the Deccan Irrigation The area irrigated on this canal has atcadily on they can at so are detected the collections of the year under report in the standing from year under report increasing gross revenue which in this year made during the year on the Triple project readled the satisfactory figure of 9 per cent on the Type Chenab Canal the area irrigated on the total cost of the work of the new showed a railing off of 35 800 acres as compared protective works the Godavari Canala project the total cost of the work. with the project forecast, but the figures of, is approaching frompit tion. The storage work the two years (1912-13 and 1913-14, the years of its working) taken tog ther were well in lake filled well and supplied far more water excess of the forecast for those years, our than is yet required for the canals. On the 280 272 acres against 240 000 agres.

280 272 acres against 240 000 scres.

The Lower Barr Doab Canal was formally Decean where an increase of 55 000 acres above opened on the 18th April 1913 and irrigation the average was recorded was begun in July 1913. The result of the 'The two large protective works under confirst year's working was highly satisfactory the attracton in the Decean are (1) the Praverg actual area irrigated being considerably more than was expected.

Rank Canal project The storage for the former is at Bisudardata and is termed Lake to the Praverg and the Praverg area. Lower Bari Doab (anal can work to full ad Arthur Hull It will be three or four years vantage until the Upper Inclum Canal has before an appreciable quantity of story d water been completed as they cannot get a cold can be let down from Lake Arthur Hill for weather augusty until the surplus water of the irrigation under the Pravara Canals. Although Medium fiver can be made available to augment work on the Mra Right Bank Canal was some the supplies in the Cherab and Ravi on which what hampered by scarrity of labour on the tide Upper Cherab soul Lower Barl systems are whole good progress was made on this project, the total expenditure of the year amounting to the year amounting to the year in the Propert Reliance Country to the year amounting to the year in the Propert Relian Canal It was will be largest protective irrigation work in expected that the canal would be opened in linds

Results of irrigation works in operation.

The following table summarises the results of prigation works for all India during 1913-14

	Capital out-	Gross reve-	Net myenur	Percentage of net revenue	Net profit during the year ( e net	Area
Chap of work.	the year on works in operation	nue during the year	during the	of capital outlay to end of year	revenue less interest charges	irrigated,
<u></u>	Rs.	Ba.	Rs	Per cent	Rs	Acres.
I —Productive	47 90 13,000				5 12,67 188	
II. Protective	6,71 62,146				-13,57 731	
IIIMinor works for which capital and revenue accounts are kept (includ- ing works under construction)	8,59 48,330	51 70 187	28 03,591	4 39	14,8°,767	2,2,0,700
IV Minor works for which only revenue accounts mrs kept		58 <b>2</b> 8,515	88 27,097			2 512,800
V. Works for which neither ca- pital nor revenue appoints are kept		1 51,86 847	97 44 262			8,276, <b>20</b> 0
Tatal 1015-14	81,21,412	9 44,71,860	6,88,70,878	(a) R 22		21,918,400
Potes 1012-13	69,56,18,600	8.83.43.683	5.75.98.082	(a) 8 08		24,515 155
Tetal 1911-11	85.84.80.811				ļ	23,297,044

(a) Percentage offeniated on works of classes L II and RIL

#### Expenditure by the State.

The subjoined table exhibits the outlay incurred by the State during the year 1913 14 on all classes of irrigation works -

	Capital outlay (direct charges)	Minor additions, maintenance, and working expenses (direct charges)
Works under construction.	Ra	Ra.
Productive Protective Minor	1 23 29,821 29,21,752 6 54,883	
Total	1,59 08 456	
Works in operation		
Productive Protective Minor	71 82,010 \$3 98,518 7 05 051	1 80 43,360 9,52,144 22,06 724
Total	1 12,35 579	2 12,02,228
Works under clames IV and V		91,05 823
Grand Total	2,91 42,035	8,08,07 551

#### Value of the Crops.

A comparison of the acreage of crops matured by means of the Government irrigation systems, with the total area under cultivation in the several provinces is given below —

Province	Net area eropped	Area irrigated by Government irrigation works	Percentage of irrigated area to total	Capital cost of Government irrigation works to end of 1918- 14 in takin of rupees	value of crops raised on areas
Burma Bengal	14,147 000 24 269 000	157 000 104 000	8 9 0 4	210 220	478 59
Bihar and Orlasa United Provinces of Agra and Oudh.	7,810 000 82,683,000	856 000 3,450,000	11 0 10 5	669 1 203	364 1,590
Ajmer Merwara Puniah	284 000 22,873,000	7 812 000	4 9 84 1	1 584	4 2,645
North-West Propiler	2,838,000	24,4,000	8 8	63	133
Sind Bombay Decean Central Provinces (ex	4 544 000 28,616 000 17,489,000	3,584,000 869,000 75,000	77 2 1 8 0 4	817 496 94	790 965 41
cluding Berar). Madrae Beluchistan	38,344,000 21,000	7 145,000 7,000	18 G 88 3	1,067 85	1 831
Total .	193,968,000	24,014,000	19 6	6,181	5,142

#### Land for Soldiers.

On October 13th 1915, the Government of India (sound in a mon complete form than had hitherto been available a nummary of their colomisation poller which is or apollal interest in rejection to the provision of land for excellents the course of the they and —

The older canals left unimported the upper portions of the Jech and the Rechna Doabs and the lower parts of the Barl Doab. The canals the triple proport—the upper Jucium the upper t nenab and the lower Bart Doub canals will bring water to much of the land in the hith rio unwit red portlone of these three hough they will irrigate some 10000 and 310 000 and 650 000 acres respectively give little scope for schemes of colonization as the areas of the Governm at waste included within the limits of irrigation are comparatively speaking small On the lower Barr Doab canal however the and available for colonization is something like I 200 000 sens. I'm built of the land about 750 000 term (or 80 000 n ctangles of \_: acres apr ca) is to be given out on terms which will encourage the brading of herse, and make About 12 000 cectangles will be distributed for the most part in grants of one retingle each to peacagt colon; is and in sold in fire cultiva to conditions in a gard to horse and male breeding will estach to the tenon of these rectangles but the grantees will be eligible for extra rectangles to which such condition apply Of these is one restangles about 7000 have been set apart for ex-olders and for the rest pricetions have already been made from the passants of ditricts lying west of the Suth i

Of the r maining 10 000 rectangles 7 000 vill constitute the borse and mule breeding grants For these the holders of the 17 000 r ct-angles mentioned above will compete. The land will be given out on the years leaves on condition that the tenant of each rectangle maintains a mare. A large proportion of the compations will be military men. Fire strong an long way to ensure the success of this part of the scheme is account the success of this part of the scheme is casalty men. Precially should make first rate breeders. Phe soldler grantes will be selected by the military suffering and the military by for the meet part retired officers and non-commissioned officers.

There are only about 78,000 acre of Gos eniment land origated by the Upper Chemab t mal and of this 42 000 acres will receive peren nial irrigation whilst the remainder will be irrigated for the khariff hare t only. On the I pper Chenab canal and on the Upper Inclum (anal no more than 40 000 mes a sail the been needs up to a maximum of Links to refor n ward grants to persons in the 1 susipinds division who rindered and stance to the community admini truism 1000 acres to be given as components for march to the army 6 000 a ms have been provided for tenunts now holdly gland on the Lower the lom ( anal whom it desired to remove in order to allow for the (Atrusion of criain r gimental horse runs 1 000 as n a are district for special reward grant to military others, and the balance will provide for grazing grounds and mes ellaneous r gulte in at-

# Projects under investigation.

Province	Name and probatle classification of work	cation of work	Estimated or approximate direct cont in lakits of rupees	Irrigable area In acres	Districts benefited	Principal crops that will be produced
Led ras	Causery is strole project. "I reductive Klistna is strole project. "I reductive Lo ver Bhavaril Velgode project. I bo 12 smaller schemes Vainty pr	Treductive 190 190 190 190 190 190 190 190 190 190	87.0 108 108 108 108 108 108 108 108 108 10	473 (NO 108 200 61 (NO 5.5 000	173 (WO Lanlyre St. Other Control of Control	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Gokak canal extension pro- Pravetiva Ject.	Przedla	183	132 000	132 000 Belgaum Fulagur and the Wheat Native glaces of Kollagur and of Minilol Jamkindi Songil Radi Kurandwad Bangil Band Kurandwad Bangil	_ 🗲 🙃
Bombay	Affine tipe our consistent of the Minor tall water of the Born tall	Vinor	27	005 £1	13 500 Thana und Kolabu	bajri jorari wheat, rice grain etc sugarane garden crops rice and bot weather crops
·	Robri canal Sukkur Bar rage and widening Last can channel hara Supply	Productive	782	7 824 000	off Bank prising districts Hyder and Parker	* beat
	Sultanwals Berari canal Damodar canal	& & 	16 89	1.7 700	Sukkur and Upper Sind Frontier Durdwan	Sind Bire foward bull, wheat and oil seeds Bice
Blar and Orises	Friends of the Eriben Protective canol   Ratempage project   Do	Protective Do	16	30 (0)	50 000 Champaran 30 (O) Shababad	Po Po
United Provinces	Belan cansl	<u>á</u>	15	30 500	30 500 Khelragarh Pargans Allahabed district	Bice and wheat

\* Banctioned by Secretary of State in Fet ruary 1915

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2	32		Irrigate	n P	YOJA	#s					
	Principal crops that will be produ.ed	All the principal Rabi and Eherif Gops grown in the United Freeines,		ñ	Wheat, gram fowar and cotton.	ह्या <b>उ</b>	8 8	Wheat and barley wild	Whent and barier	Wheat and barley	
	Districts benefited	In the Tracket Processor.  Rampur State, Pilibhi Shah- Jahapur, Hardor Baculty Morudabad, Budaur, Saha Fanbur, Musangmagar, Merur, Bulandahar, All	Hainpuri Farakhabad Etawah Campore Fatch pore and Allahabad (**) Kernish Purish Karnai Delbi Gurgeon, Hissas, Pettala	Pilibilt Shahlahan p u r Kheri Bardiy Hardol	Labore, Perocepare, Mont gomery, Multan, Blanner	Ryankse	Bhandara '	Lorala; Do	Shbi	Supplement Guetta Peatsu to Khush dilkban	
igation—con	Irrigablo aroa in acres	1 524,000		745 300	8 000 000			90000	218 000 209 964	Supplement to Khush dilkban	9 441 424 to
Projects under investigation—conts	Retimated or approximate direct cost in lakis of rupees	970		0°6	973	15	16 14 to 26	861	58	16	4,330 to 4 657
Projects v	ation of work	Productive		Da.	Ď	å	pro-Protective	Productive Do	දුදු	å	Total
	Name and probable classification of work	Sarta-Ganges, J un n.a. feeders projects		Sards Kicha Feeder and Sards caust for Outh	Satist Valley project	2	Pangoli Nafla tank pro- jeut Deena Nadi Tank project		Gamboli reservoir project Zhob project	Barabore reservoir project	
	Prorince	United Provinces	Memalite	United Provinces	Punjab .	Perro	Central Provinces		Balochetan		

## uildings and Roads.

The Buildings and Roads branch of the Public Works Department embraces all the operations of the Department which are not elemed grader the special beads of Railways and Irrigation. It includes the extremion and maintenance of the road system, the construction and register and a binder and a large railways of the functions of government in all its branches and a large miscellances class of worth or public improvement including lighthouses barboors embantanced boat brades and clares and the water apply and sanitation of forms.

ure on which is chiedy The operations of this branch of the Department are classed primarily under the head of Civil Works, the expendations on which is not thus provided a resource. The classification of this expenditure for 1918 14 under the various heads is shown in the following table —

	Central Pro vinces and Berar	Burme	4 99am	Dengal	Bihar and Orleas	United Pro- white of Agra and Ough	Punjab	North-West Punjab Frontier Pro	Wadras	Bombey India General	India General	Total
	မ	<b>4</b>	od	at.	બ	#1	A	Э	ч	Ⴗ	<b>પ</b> રે	u
Imperial	77 724	24 271	2 80S	110 450	13 849	117 97	41 637	218 934	31 058	56 687	256 70\$	910 318
Previocial*	458 919	674 107	411,162	681,244	-19 tgc	600 202	00x 9 <b>1</b> 19		1 099 315	703,508		3 040,884
Total	536,643	878 900	413 967	79167	368 765	676 478	678 478 687 937	218 914	1 170 978	850 283		256,703 6 860,136
Includes expenditure by the Civil Department in addition to that by the Public Works Department	ture by th	e Civil De	partment	in additio	ē	Бхрев Втрев	Expenditure by Civil On Expenditure in England	Expenditure by Civil Officers from Imperat Tunds Expenditure in England	from Imper	1. Funds	અ બા	47,304
									Grand Total	-	41	7 008 684

The extension of local Government in India has thrown a large portion of the smaller class of public works. Into the hands of the local Boards Speaking generally the boards maintain their own existibilishments buttin the case of any works of unusual difficulty they have recourse to the professional skill of the Public Works Officers.

### Posts and Telegraphs

POST OFFICE.

The control of the Posts and Telegraphs ments. The Presidency Postmasters, indeed of India is vested in an officer designated Di have one or more Superintendents subordinate rector-General of Posts and Telegraphs who to them. When the duties of the Postmaster works in subordinate to the Government of a head office become so overcom that is is at India in the Department of Commerce and unable to perform them fully himself, a Deputy tons-General (who are officers of the rank of Postmaster-General) four Assistant Directors General (whose status is similar to that of Deputy Postmasters-General) and two Personal Assistants (who are selected from the staff of baperintendente)

For postal purposes, the Indian Empire is divided into eight circles as shown below, each in charge of a Postmaster General —Bengal and team, Biliar and Orissa, Bonbay Burns, Central Madras, Punjab and North West Frontier and United Provinces. The Central Circle comprises roughly the Central Provinces and the Central India and Rajputana Agencies

The Postmanters General are responsible to the Director General for the whole of the postal arrangements in their respective circles with the exception of those connected with the con veyance of mails by rallways and miand steam ers which are entrusted to four officers bearing the designation of Inspector General of Railway Mail Service and Serting All the Pestmasters-tioneral are provided with Personal Assistants Divisions each in charge of a Superintendent and each Superintendent is assisted by a cortain number of officials styled Inspectors or Assistant : Superintendents

Generally there is a head Post Office at the head-quarters of each revenue district and other post offices in the same district and usually subordinate to the head office for purpose of accounts The Postmustern of the (alcutta, Bondes and Madrus General Post critta, Bonnbai and Madras General Post a number of cleap telegraph offices working Offices and of the larger of the other head post under the control of the Post Office. The offices are directly under the Postmaster General telegraph typenditure on account of them and the least of them exercises the same powers combined offices is borne by the Telegraph as a Superintendent of Post Offices in respect of Department to which the whole of their telegraph company are appropriately larger than the whole of their telegraph. impections appointments have and punish graph revenue is also credited

Industry The superior staff of the Direction, Postmaster is appointed to relieve him of some in addition to the Director-General himself of them and it still further relief is required consists on the postal side of two Deputy Directions one or more Amistant Postmasters are employed. The more important of the offices subordinate to the head office are designated sub-offices and are usually established only in towns of some importance Sub-offices transact all classes of importance sub-offices transact all classes of postal business with the public around to the head offices to which they are subordinate incorporating therein the accounts of their branch offices and frequently have direct dealings with Government local sub-treasuries The officer in charge of such an office works it eith raingle handed or with the assistance of one or more clerks according to the amount of business

Branch offices are small offices with limited functions ordinarily intended for villages and are placed in charge either of departmental officers on small pay or of extraneous agents such as school masters shopkeepers land holders of cultivators who perform their postal duties in return for a small remuneration

The audit work of the Post Office is entrusted the Accountant-General Post Office and Telegraphs who is an officer of the finance Department of the Government of India and also assisted by Departy Postmanters-Gueral
The eight Posts Circles and the jurisdictor for the four Inspectors-Gueral are divided into
the four Inspectors-Gueral are divided into the necessary staff of cierks perform at separate headquarters the actual audit work of

a contain number of postal circles
In accordance with an arrangement which
has been in force since 1883 a large number of sul-post offices and a few head offices perform telegraph work in addition to their postal work and are known by the name of combined officer The policy is to increase telegraph facilities everywhere and especially in towns by opining

Inland Tariff is as follows --

Lettem	When the postage is prepart	When the postage is wholly nupsid	When the postage is insufficiently prepaid
Not expecting t tola	Anna.	) x.	## ##
Exceeding 1 talk but not exceeding 10 toles	1	prepared to	, defi-
Every additional 10 tolas or part of that weight	1	delive	\$ <del>5</del> 5
Book and pattern packets Every 10 toles or part of that weight	ŧ	Dog H	Dog Se

Posteurds.		1	
Biagio { ann	<b>.</b>		
Reply		- 1	
(The postage on cards of private manuf most be propaid in full)	act	are į	
Parode (prepayment compulsory)		. 1	
Every 40 toles or part of that weight up to 440 toles	68. O	2. 2	
Exceeding 440 tolas but not exceeding 480 tolas	а	0	
Every additional 40 tolar or part of that weight up to 800 tolar	0	4	
Regulation fee			
For each letter postcard book or pat- turn packet or parcel to be registered	0	2	
Ordinary Money Order fees			i
On any sum not exceeding Rs 5	Ü	1	
On any sum exceeding Rs 5 but not exceeding Rs 10	0	2	
On any sum exceeding Rs 10 but not exceeding Rs 15	0	3 (	
On any sum exceeding Rs 15 but not exceeding Rs 25	0	4	
On any sum exceeding Rs 25 up to Rs 600	0	4,	
for each complete sum of Rs 25 and 4 for the remainder provided that if it mannder does not exceed Rs. 5 the char it shall be only 1 anna. If it does not exceed Rs 10 the charge for it shall be only 2 and if it does not exceed Rs 15 the char it shall be only 3 annas	Te Sico Sico	for eed B <b>as</b>	

Telegraphic money order fees —The same as the fees for ordinary money orders plut a telegraph charge calculated at the rates for inland telegrams for the actual number of mords used in the telegram advining the remit tance according as the telegram is to be sent at an Lapress or as an Ordinary message

Value-possible fees.—These are calculated on the amount specified for remittance to the sender and are the same as the fees for ordinary money orders

Insurance feet —For every Rt 50 of insured value 1 anna

Acknowledgment fee — For each registered article 1 anna

Caylon and Portuguese India are regarded as Inland for the purpose of the tariff given above except with regard to unsurance fees

The Foreign Tarrity (which as noted above is not applicable to Caylon and Portuguese India, except as regards insurance fees) is as follows—

#### Letters

To the United King dom, other British Possessions and Egypt, including the Bourian

One same for each ounce or part of that weight.

To other countries, colonies or places
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21 annas for the first ounce and 14 annas for every additional ounce or part of that weight

Postcards Single ... Reply l enus. 2 annas.

Printed Papers — anna for every 2 ownces or part of that weight

Runness Powers — anna for every 2 ownces

Business Popers — anna for every 2 owness or part of that weight subject to a minimum charge of 24 annas for each packet

Samples - 1 anna for every 2 ounces or part of that weight subject to a minimum charge of 1 anna for each packet

(The rates shown above are those chargeable whom the postage is prepaid)

Parcels—(Prepayment compulsory). The rates vary with the countries to which they are addressed. The rates to the United Kingdom are—

	Fta Gibrai tar		Over land		
	Rs a	p	Rg	2	p
Not over 3 lbs	0 12	0	1	8	0
-	1 8	0	2	4	0
11	2 4	0	٩	0	0

Regulation for -2 annas for each letter postcard or packet

Money Orders.—To countries on which money orders have to be drawn in rappe car rency, the rates of Commission are the same as in the case of inland money orders

To countries on which money orders have to be drawn in stering, the rates are as follows —

		ABBES.
Not exceeding 41		3
Exceeding £1 but not exceed:	ng 42	5
£_	£3	8
F3	£4	10
44	£5	13
1.5		12

for each complete sum of £5 and 12 annas for the remainder provided that if the remainder does not exceed £1 the charge for 1s shall be 3 annas, if it does not exceed £2, the charge for it shall be 5 annas if it does not exceed £3, the charge for it shall be 8 annas and if it does not exceed £4, the charge for it shall be 10 annas

Insurance fees-

To countries other than those named below 3 annual for every £5

To Ceylon and Portuguese India 2 annus per every Rs.

To Mauritius the Sey chelles Zanzibar and the British East Africa, Uganda, and Somaliand Protec-

torates 4 amps per every Rs.

Acknowledgment fee.—2 upmas for canb resistance article.

place the issue number of registered letters and pass too issue number of registered severs and packets posted amounted to over 1040 millions. The number of parcel mall articles given out for delivery in the former year was about 2½ millions, as compared with over 12½ millions of such satisfies posted during the latter year. The total number and value of same over 12½ millions of such which we have a such and Rs. 20,58,10,974 in 1894-95 to 30,252,382 and Rs. 56,07 00 416 respectively in

Browth of the Peat Office.—At the end of tion in 1911 13 of the rule under which inland 1864-66 the total number of Post Offices was 10,714 and the total length of mail lines 120,171 thereof must be insured, the figures for 1914-15 under the 18 March 1915 the corresponding figures were 19,186 and 186 073. Durbounding figures were 19,186 and 186 074. Durbounding figures were 19,186 and 186 075. Durbounding figures were 19,186 and 186 075. The number of scoomst open on the books of the pathways and packets given out for of 1914-18 with an increase from 18. 8,40,17,927 on the 81st March 1896 to 1,644,074 at the end of 1914-15 the total number of unregistered to 18 1,489,26,323 in the total amount standing articles of the same classes given out for delivery at the credit of depositors. The total staff place the issue number of registered betters and of the department on the Sixt March 1915 to Bs 18,526,323 in the total amount standing at the credit of depositors. The total staff of the department on the Sint March 1915 numbered 95 453. The net financial result of the working of the Post Office for the year 1914-15 was a surplus of Ra. 24 66,705

This account of the activities of the Post Office would not be complete if it were ut mentioned that as the 31st March 1315 there were 25 348 active Postal Life Insurance Policies and na. Zupo,14,94 in 1594-95 to week 25 348 source Formal Life insurance Folicies and Ra. 65,07 69 416 respectively in with an aggregate assurance of Ra. 8,56 48,952 and that during the year 1914-15 it disbursed of articles insured for transmission by post was 250 275 with an aggregate declared value of Ra. 8,26,62 600 and the corresponding figures in 1910-11 were 1,169 428 and Ra. 8,98,87,875 to 1910-11 were 1,169 428 and Ra. 8,98,87,875 to 1910-11 on parcels and letters from alread and as the result, however mainly of the introduce.

#### TELEGRAPH DEPARTMENT

Telegraphs.—Up to 1912 the telegraph sidered necessary and the engineering work system in India was administered as a separate is in charge of the Postmaster General. Turns Department by an officer designated Director Concern by an officer designated Director Concern by an officer designated of Telegraphs who worked directly under the Government of India in the Department in the purpose. These four Circles are clivided under the Government of India in the Department in the purpose. These four Circles are clivided in the purpose These four Circles are clivided to the purpose. of Commerce and Industry In that year it was decided to vest the control of Posts and Tolographs in a single officer as an experimental measure with a view to the eventual analyzametion of the two Departments.

tion of the two Departments.

In pursuance of this policy an experimental amaganestics of the two services was introduced in the Bombay and Contral Circles from the 1st July 1912. The fundamental principle of this scheme which follows closely the system in scree in the United Kingdom and several tother European countries are that the traffic and engineering work of the Telegraph Department should be separated, the former branch of work in sech Circle being transferred to the Postmanter General who is assisted by a Departy Postmanter-General and a suitable sampler of attached officers while the engineering branch in controlled by a Direction of Telegraphs in is controlled by a Director of Telegraphs in charge of the two Circles. Subordinate to this collect three are several Divisional Superintendents who are assisted by a number of attached

In 1914 the complete amalgametica of the two Departments was saactloned by the Secre-tary of State and introduced from 1st April. tary of State and introduced from 1st April. The superior staff of the direction in addition to the Director-General himself consist on the Engineering side of a Chief Engineer, Telegraphs, with an Amistant and a Personal Amistant to the Director-General. For tradite work there is a Despity Director-General with an Amistant and an Amistant Director-General. In the Christs the scheme which has been introduced follows density on the lines of the apparimental values are somewhat man peen interruteer affigure density on the lines of the apperimental one referred to above. For telegraph regimeering purposes India is divided up into three Clustes code in decays of a Director of Thiographs. For Juring speed arrangements were con-

The telegraph traffic work is now under the control of the Postmaster-General each of whom is assisted by a Deputy Postmaster-General with a suitable staff of attached officers.

The audit work of the Telegraph Departmens is, like that of the Post Office, enturised the Accountant General, Posts and Telegraph that as is a staff of Deputy and Amistiant Accountants General.

inland Tariff —The tariff for inland telegrams is as follows —

TIETHER DE NO TOROGEA	-					
Priode	and Ex pres Rs		Or	ΓY		
Kinimum charge	ı	0			ì	<b>E</b>
Each additional wo over 12	₹d O	2	0	j	}	i i
Addition	nal d	lary.	54			
Minimum for reply-pai Acknowledgment of re Multiple telegrams, or less Collation	each each	100 ne	) <b>P</b> C	rds	6 4 ter	ol telo-
	c 10	grad bo	m4.			RL
For acceptance of an Express telegram during the hours when an office is closed.	]	ecs and tion the	of aly of	des	right titue sod	!
	L	CLOS	-			ı,

Signating by flag of phore to or from an telegram  Boat hire	r seme ip <del>s —</del> pe	8 annas Amount ally sary	
Copies of telegrams a words or less		O 4 addas	
Pre	11		
	Kx	Ordi	
_	press Rs. a.		-
Minimum charge	1 (	0 8	) £ 2
Luch additional 6 word over 48	ie 0 2	0 1	} ₩ ₩
(Ceylon is not regar Portuguese India is)	ded a	Inlan	d but
Foreign Tariff -T	he cha	rges for	foreign

legrar a vary with the countries to which they are a dressed. The rates per word for private and the legrams to all countries in Europe except Russia and Turkev are as follow

	-	Pnv	te	Stat	e
				Rs.	
Lin	Turkey	1	в		
	Inde	1	4	0	12
	In اعظم	1	4	U	10

offices worked by the Post Office rose from 1,109 to 3 199 The increase in the number of paid telegrams dealt with is shown by the

TORN HTTE TRUTAS -		
	18 <b>94</b> -95	1014-15
Inland { Private State Press	8 206,868 586 571 26 202	13 084,815 1,651 980 232,774
Private Foreign State Press	564 202 6,804 8 094	
Total		16,190,565

Wireless.—The total number of wireless telegraph stations open for traffic at the end of 1914 to was seventeen, viz Port Bair Bangoon Diamond Island, Table Island, Victoria Peint, Madras Bombay Sandbead, Galoutta Karach Delin Simia, Allahabad, Labore Nagpur, Penhawa Quetta, and Secunierabad the total number of messages of all kinds dasposed by the tor const. statues, during the was was by the ten coast stations during the year was 65 518.

Telephone.—On the 31st December 1914 the number of telephone exchanges established by the department was 175 the total number of connections being 5 766 and there were also 1880 offices on non-exchange circuits. The | Tarrey | 1 0 | 1 d 0 12 | 1 d 0

in previous issues of the Indian Year Book was on the whole prosperious the misoscon (1914-15) a general survey of the economic had been good, the agricultural outlook was conditions governing the trade of India was satisfactory, and though there were one of two given. These conditions are briefly that India depressing tactors like the overstocking of is still an agricultural country therefore the principal exports are lookstuffs and raw material and the imports are manufactured articles. Idianatrous and gave rise to the gloomlest anticles and the proposed in the property were have not an exportative than main extent of the property property and the property of rial and the imports are manufactured articles. Idisastrous and gave rise to the gloomlest antical At the same time India has every year heavy pations regarding two main staples cotton and charges to meet in London approximately, into in which the Continent has always been £18 millions, so that the balance of trade must a heavy buyer. Government were implored be in her favour. In the last official year to take steps to finance a big carry-over to keep these conditions were overshadowed entirely by holders and growers from ruin. Government the disturbance set up by the war. It is true however acted authously and whilst under the disturbance set up by the war. It is true however acted cautiously and whilst under that only in a certain very limited sense dit taking to keep the Presidency Banks will the war come directly home to the country supplied with funds in order that they might Save for the few weeks when the German crutest accommodate trade wisely defined to assume Enden was reiding shapping in the Bay of the responsibility for bolatering up any parti-tudes when she they wishell late Madras, adapted itself to was conditions and a certain for minutes when she three whells lato Madras, adapted itself to war conditions and a certain the clash of arms was distant. But India is lequilibrium was set up "Novelheleasthe effect now closely intertwined commercially with the lot the war on trade was severe. The work! The great bulk of the import trade is falling off in the value of tryots in 1910 was still done with the United Kingdom and the nearly as great as the entire export of raw British Empire but the larger portion of the cotton and jute in the previous year Exports export trade is with the continent of Europe of merchandisch in the eight months. August to

and Germany in particular has been a big buyer | March, fell off ascompared with the correspond of Indian produce as well as an increasing ing months of the previous year as follows—competitor in the import trade | Prom Rs 166 crores (£110 6 millional to Rs 0.5) competitor in the import trade

The influence of the war on Indian trade
istatistic in detailin the review of the trade of
India by the Director-General of Statistics
Mar G Findlay Shirns from which the facts
off in the same period from Rs 127 crores (283

There was the pre-war period, from March to
July, and the post-war period from Angust
to March. Trade during the pre-war period

ing months of the pre-tow unit for promise of the pre-town Rs 127

From Rs 166 crores (210 6 millions) to Rs 25

crores (263 3 millions) or 45 per cent. Imports 6:0

off in the same period from Rs 127 crores (285

off in the same period from Rs 127 crores (285

off in the same period from Rs 127

off in the same period from Rs

#### THE TRADE OF THE YEAR.

The total sea borne trade of British India in of foreign goods were about its 4 crosses or The total sets borne trade of British India in offereign goods were about its 4 crores or 1814-15 amounted to Rs 354 crores or 1236 perify 18 millions. The total treasure imported millions as against its 491 crores or 1.327 was nearly 18 millions. The total treasure imports were valued at deverage as against Rs 53 crores in 1911-12 in 1911 in illions and exports of private merchandis.

The total imports were valued at deverage as against Rs 53 crores in 1911-12 and 1911 in 1911 in 1911 in 1912 in 1912 in 1912 in 1912 in 1914 in

From the table below it will be seen that the total trade of 1914-13 in private merchandise decreased 28 per cent as against that of 1915-16—25 per cent in lapports 27 per cent in experts and 12 per cent in experts. The trade in treasure declined 43 per cent (57 per cent in experts and 41 per cent in imports).

	1913 14 Rs (lakhs)	1914 15 Rs (lakis).	Decrease as compared with 1913-14	Per cent
MERCHANDISE				-
Imports	1 85 2.	1 37 93	45 32	25 27 12
Exports	2,44 20	1 77 48	86 TE	27
Re-reports	4,88	111	67	12
T	otal 4,52 18	3 19 52	1,12 61	26
THEAST MR.			·	
Imports	46 62	21 77	14 85	41
Bugosta	7 05	3 30	8 75	53
	Cotal 43 67	25,07	18,00	43

Way influence.—In order to gauge as far as possible the dislocation of trade owing to the way, it is convenient, to divide the year under review and the preceding year into two periods (1) April to July and (2) August to March. The loss from August to March which may be assumed to be lengthy, in not entirely due to the way was Rs 44 croves or £29 millions in important, Rs 704 croves or £47 millions in oxports and Rs 62 lakes or £400 000 in re-exports. The total decrease in the war period as compared with the corresponding period of the previous year is Re 115 crores or er; millious This is equivalent to a decrease of 39 per cent

	, -	<del></del>	1 -	_	, -	
	1913	-14	1914	-15		ase (+) rease ()
•	April to July	August to March	April fo July	Angust to Varch	April to July	August to March,
	Ru (lakkhu)	Rs (lakha)	R« (lakh«	R« Wlakh«	Re (lakh i	Rs. (lakhs),
Import*	60,	1 27 20	y 1 94 77	8316	—1 2A	<b>⊣4(4</b>
Feports	°8 12	1 66 08	82 01	D> 47	+3 80	<b>-70 61</b>
Ri = xports	1 4	3 14	1 59	2 12	i +5	-62

To sum up it will be seen that in the pre war goods accounted for about a half on the whole priod of four months April to July imports decrease metals over Rs 8 ercores and hardway declined by Rs 12 ercores while in the war Rs 2 ercores The total exports showed an period there was a decline of over Rs 44 erores | increase of about Rs 32 erores in the first four Articles of food deline and tobacco nervased months of the official year due making to by Rs 39 lakes in the pre-war period but in lawy shipments of cotton raw to some extent by Rs. 30 lakes in the pre-war period but in heavy shipments of cotton raw to some extent war priod this class showd a heavy decides at off by restricted exports of grain pulse and of Rs. > 47 lakes of which sugar accounted flour. During the war priod the exports for Rs. 4.0 lakes. Imports of raw materials declined by over Rs. 70 crores extiles (mainly also advanced by Rs. 24 lakes in the pre-war, cotton and inter-raw) accounting for half of period. Duri declined by Rs. 1.48 lakes in the the decrease grain pulse and flour Rs. 8 crores war period. Mainfactured articles import and seeda Rs. 11 crores. Mainfactured articles into the decrease grain pulse and flour Rs. 8 crores of which but during the war period this class declined jute gunny bags and cloth and other textiles by over Rs. 36 crores. Textiles mainly cotton accounted for Ps. 74 crores.

#### THE IMPORT TRADE.

The value of the import trade in each of the port trade and accounts for heavy decreases accounts which articles are grouped in the under all the principal heads or cotton goods accounts was as shown below. The total value (78, 3 199 inkins) iron and steel (8s. 6,24 inkins) of the imports decreased in all classes. The other metals (Rs. 2.03 lakins) hardware entitlery decreases were marked under class f with regard to support to the class of the of the imports decreased in all classes. The other metals (Bs 2 03 lakhs) hardware entlery of sugar. In class II important decreases were noticeable under precious stones and pearls unset (Rs. St lakks), oss! oste and patent fuel (Rs. St lakks) and silk raw (Rs. 12 lakks). while keroline oil and raw cotton improved to tured cotton were however, maintained on the the extent of Rs 481akhs and Rs 21akhs respec- lavel of the previous year while those of woolken investigation is asisting and its significant properties of the previous year while those of wholese their or obtained that it is and all goods rose slightly like was restricted and prices rose slightly like was restricted and prices rose slightly like was on iron and steel prices was somewhat in-III to pregents over 77 per cent of the total limit regular and the declared unit values during the

year were generally on a lower level as against those of the previous year

		1914-15 R* (lakh <sub>r</sub> )	Relative share per cent	Di crease as compared with 1918-14 Re. (lakhs)	Per cent
L	Food Drink and Tobacco	1958	14 2	3 08	20 6
п	Raw Material	9 32	6 8	1 24	11 7
III.	Vanualactured Articles	1 06 67	77 3	38 49	26 ა
12.	Miscellaneous	2 36	17	<b>J</b> 1	3 <b>9</b>
	Total	1 3" 99	100	1 16	24 7

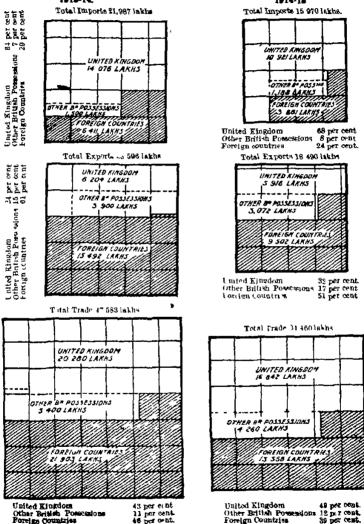
#### THE EXPORT TRADE.

The total exports of Indian merchandise de clined 2" per cent as against 25 per cent in imports. If the articles are classified into the four main groups as they are in the trade accounts it will be seen from the figures below that the decrease is contributed more or less by all classes. The contraction in Class I was due to a decime in the exports of grain pulse and flour amounting to Rs 16 10 lakes of which rice accounted for Re g 45 lakhs wheat and flour Rs 5,15 lakhs barley Rs 1 1 lakhs and gram Rs 39 lakhs The exportation of wheat or wheat flour was prohibited with effect from the 28th December 1914 except to the United Kingdom or British Possess on, the total quan tity to be thus exported up to the Sist March being limited to 78 000 tons. The trade in ten Rs 55 lakhs and Rs 12 lakhs respectively.
The curtailment of the export trade was most marked in Class II which represents 45 per cent of the total Almost all the articles showed a contraction. Tentile materials accounted rontraction. Textile staterials accounted for a decrease of Ra 25 72 lakhs namely Rs 17 92 lakhs under raw jute and Rs 7 5. lakhs under raw cotion. The high prices res ised for jute in 1918-14 were not mantained With With favourable agricultural conditions, a record crop was harvested resulting in an appreciable fall in prices. Owing to the disturbed condition of the market due to the lack of townsee buy ers were unable to take delivery under existing contracts, and the millowners were not ready to buy largely except at very low prices. During the last quarter of the year under review the demand for bute rose rapidly on account of the demand for begs for trade and military pur power. The position of the cotton market was so the from satisfactory when the war broke it, there being a glut in the place-goods market high was accratisted by the war. With the

shitting off of large foreign markets and with a promising good harvest there was a resultant slump in the price of raw cotton. A decline in the price of raw lute cotton etc restricted the purchasing power of the propie and their demand for imported goods such as cotton plecegoods India is one of if not the larg at consumer of piecegoods in the world Oliseeds accounted for a decrease of Rs 11 02 lakes of which Rs 2 6. lakbs were under rapeseed. Rs. 2 61 lakbs under groundnuts Rs 163 lakhs under sesa mum Rs 143 lakhs under finseed Rs 84 lakhs under castor and Ra 62 lakhs under cotton seed. The trad in seeds is mainly conducted with the continent of Europe and the effect of the war was directly fit Similarly raw bides and skins fell in value by Rs 391 lakhs manganese ore by Rs 46 lakhs lac by Rs 36 lakes bone for manure by Pa 30 lakes and coal by Rs 16 lakes. The only increas es noticeabe in this class are under rubber raw (Rs lo lakha) and coccanut oil Rs 14 lakhat. In Class III the total decline amounted in that In the total decime automore to Re 8 01 lakhs of which cotton arm and goods were repondise for Rs 4 11 lakhs gunn cloth for Rs 2 49 takhs optiom for Rs 100 lakhs olicakes and corr Rs E lakhs sech and tanned skins Rs 31 lakhs singul hides out the other hand improved by Rs 88 lakhs selection. indigo by Rs 69 lakhs paradin wax by Rs Lolakhs and salipetre by Rs 12 lakhs Of these articles indigo showed a marked rise in price in the year due to a stronger demand for it in the abunce of the dyes in the world's articles to the head believed to the stronger demand for the head to the head believed to the stronger demand for the head to the head to the stronger demand to the stronger demand for the stronger demand for the stronger demand for the stronger demand for the stronger demand to the stronger demand to the stronger demand to the stronger demand the stronger demand to the stronge market which had bitherto been supplied by Germany the declared import value per owt in the case of the United Kingdom being e.g., in December £49-3e as against £11-9e in December 1913 Dr seed hides also improved in price although the price of skins, raw and dressed, slightly fell as compared with prices of the previous year Opium and rew rubber fell

#### Distribution of trade of British India between British Pensessions and Parchia Countries in 1914-16, as compared with the year 1915-14.

It will be seen India imports chiefly from the British Empire and exports to countries outside the Empire.
1913-14.



Note.—Total trade includes private merchandise and treasure on private account.

The dotted lists indicate the share of the United Kingdom.

In price and the price of or fice was lower than in 1919 14.

_	<del>-</del>	1914 15 Ra (lakits)	Rulative share per cent	Decrease as compared with 1913 14 Re dashe)	Per cent
I	Food Drank and Tobacco	4R 97	_7 6	15 7.	24 4
11	Raw Materials	80 U	45 1	42.09	34 6
пі	Wanufactured Articles	46 8	20 3	801	14.7
ĮV	Me es flanecus	1 86	1		22 7
	Total	1 77 48	100	68 72	27 3
_		1		1 1	

comparatively unimportant with a total value of Rs 4 1 crores declined although not in the same proportion as the import and export trade. The trade is carried on chiefly through the ports of Bombay and Karachi which contime to act a receiving and distributing cen tres between Europe on the one hand and the Persian Gulf and the East Coast of Africa on the other The articles of trade are mostly many factured goods the most important class being cotton good of which the value declined from cotton good of which the value occurred acoust of Re. 158 lakes to Re. 87 lakes on account of amaller exports to Adm. Arabia. Bahrela Islanda Persia and Ceylon. This decline was anamon reverse and terror. This define was partly made good by sugar which accounted for an increase of Re 40 lakes on to the United Almsdom. Persta and East African Protecto-Raw wool imported over the land fronter maintained its kivel with a slightly higher range

of prices
Calculated Values.—The value of part of
the trade in the year under review was inflated by increased price in order to examine be east was due to the smaller volume of taste therefore recent with previous trade it is and Rs 10 67 tasks or 5 per cent to lower personner to eliminate the effect of the varia prices. In short prices were 5 per cent lower tion of prices by the method that is universally than those of 1914 14 and the volume of im

Re-exports.—The re-export trade which is vient to show here how the 1914 L. figures appear if alculated at the prices of 1913 14. The cakulated values in short represent what the value of the trade would have been lind prices remained the same as in 1913 14. The difference therefore between these calculated values of the trade of 1914 1; and the values recorded in 1913 14 represents the change in the volume of trade in the year under review. The difference between the cakenland values and the actual values recorded in 1914 15 shows the change in prices Under imports the decline of Rs 45 32 laklis is made up of a decline of Ra 40 02 lakha or 20 per cent due to a deers ass in the volume of trade sit off by an increase of Rs "0 lakes or 5 per cent due to a rise in prices. Similarly in experiatin fall of Rs 66 "2 lakheis due to a deer are of Rs 49 % lakins or 20 per cent in the tolume of trade and of Rs 10 17 lakes or a per cent in prices. Taking the imports and exports together the total recorded decrease is Rs 1 12 04 lakha of which Ra 95 87 lakha or 22 employed for this problem. It will be suffi ports and exports fell by 22 per cent

Balance of Trade -The excess of exports over imports of marchandis and treasure in 1914-15 was Rs 20 72 lakes (£1 | 9 millions) lightling tions rement transactions and Rs 25 20 lakha (116 8 millions) excluding Government transactions. The average for the past three years is Rs 23 48 lakha (115 8 millions) and Rs 44 07 lakha (122 7 millions) respectively. The following tables show the net figures of merchandis and treasure excluding Covernment transactions for the years 1910-11 to 1914-15 .

<del></del>	Note aports of Nerchandise Rs. (lakha)	Net imports of The award Re (laking)	Tetal Netexport Ra (lakha)
—	· ·	'	
1810-11	80 53	92 64	47.09
1911-12	89.28	43.00	46 22
1912-13	84 09	44 %	40 94
1918-14	66 63	29 10	300,
1914-15	43 🛤	18 46	25 20

Prices.—Before the outbreak of war the at Re 105 per 100 manuds, or 106 per cent prices of coreals, pulses and oliseeds except above the level of the curbreak of war linesed were on the whole above the level of the Earnings of Labour — From an examination previous year while raw cotton and raw jute of the previous year while raw cotton and raw jute of the returns of wages in selected industries were below that level. After the outbreak of it appears that in 1915 there was an increase was the prices of country produce were unfor of two per cent as compared with the tounted y subject to great changes. The our corresponding period of 1914. The selected tailment and in some cases the complete stop-industries were the cotton industry of Bombay. page of demand in European markets led to a fall in Indian staples such as rice, offseeds raw jute and raw cotton. The average price of rice at the end of March 1915 was 12 per cent lower than in the period just previous to the outbreak of was. Jawar bairs and maize were also cheaper on account of excellent har vists Baw juic had fallen from the high level of the previous year to a price 83 per cent be low the level at the outbreak of war In the worker in an Indian factory is usually if not low the level at the outbreak of war. In the always bound to the soil by ties of affection same period raw cotton fell 32 per cent seas and returns to his home who in necessary espenium 24 per cent and tinseed 13 per cent cially be fore the strival of the monsoon to pre-With wheat gram barlev and arhar dailt was pare the soil. The effects of uncomployed it has barleviated at the monsoon to pre-wine wheat rose in February towing to therefore loss sew re than in worker countries the rise in world markets and in spite of hum.

After the first shock of war in August and Sepper hartests) to its maximum of 45 per cent above the level prevailing in the last fortnight of July 1914 Imported sugar and imported salt rose more than other articles of import On 31st March 1915 Java sugar was selling in Calcutta at Rs 11 12 annas per maund or 74 per cent above the level of July 1914. The rise in imported anger was due to the diversion. of Java and Mannitius sugar to the United Kingdom liverpool salt (ex-goish) in the last week of March 1915 was selling in Calcutts there was an increase of one per cent

Barnings of Labour -From an examination industries were the cocton following of homosy the woollen industry of Cawnpore the jute paper and mining (coal) industries of Bengal the tea industry of Assam the rice industry of Rangoon and the brewing industry of the Pun-jab It is true that on the outbreak of war there was for a time considerable unemploy ment in the cotton and in a less degree in the iute trades. As is well known however worker in an Indian factory is usually if not tember, there was considerable activity in the jutelindustry owing to the demand for bags and other jute manufactures for commercial and military purposes Employment was good and wages were on a high level in the woollen industry which had large war confracts on hand. The rise in the Bombay cotton industry was 3 per cent in the jute industry one per cent and in the woollen industry 12 per cent. No rise occurred in the paper rice or coalindustries in the year under review. In the tea industry

#### DIRECTION OF INDIAN TRADE.

In ordinary years considerably more than half i the totalforeign trade is with Europe and about a quarter with this In 1913-14 the year before the outbreak of war 67 percent was with Europe 21 per cent with Asia 8 per cent with America Sparcent with Africa and I percent with Australia and New Zealand Of the im port trade in that year over 80 per cent was portirate however was far more widely distri-buted. 57 per cent was with Europe 26 per cent with Asia, 12 per cent, with America chiefly the United Status 3 percent with Africa and 2 percent with Australia and New Z sland In the year under review 1914-15 of the total trade 64 per cent was with Europe 22 per cent with Asia 9 per cent with America 8 per cent with Africa, and 2 per cent with Australasia Of the import trade 77 per cent was with the huropean countries over 67 per cent being with the United Kingdom Of the export trade 55 huropean countries over 67 per cent being with the United Kingdom Of the export trade 55 per cent was with the European countries and 26 per cent with Asia These percentages show only slight variations accompared with 1913-14 Roughly speaking 40 per cent of the total trade is with the United Kingdom, 10 per cent with other parts of the Europir and the remainder with countries outside the Empire

America mearle 3 per cent each and Austria-Hungary 2 per cent. The six chief destinations of India vexports in the same year were the United Aingdom (24 per cent) Germany (10 per cent) Japan and the United States of America (9 per cent cach) France (7 per cent ) and Belgium (5 per cent). It will be a ratchat Germany next to the United Kingdom was India a best sustomer. Of India a import trade in the vear before the war (1913 14) which was walted at £122 million. Griman, supplied goods to the value of nearly £84 millions and took exports to the value of over £174 millions out of a total xport yained at £366 millions In that year the imports from Austria Hungary amounted to £2 9 millions and exports to £6 7 millions Belgium also supplied goods to the value of £2 8 millions and received exports valued at £8 millions. The total trade of India with these times countries had a value of over 246 millions or 16 per cept Trade with France was valued at 113 6 millions The trade with these countries during 1914 15 was considerably curtailed to the extent of £34 6 millions or 58 per cont. The most remarkable fact how ever looking back over the trade statistics of the last decade is the rapid progress made by the three countries—Japan Japa and Germany, which is referred to below. The effect of war on trade has naturally been to stop our trade Temaisder with countries outside the Empire
Before the outbreak of war the six chief
countries from which India drew her imports
were the United Kingdom Germany Java
Japan the United States and Austris-Hungary
In 1913-15 the United Kingdom supplied 64 per
loant of the total imports, Germany 7 per cent
outside the total imports, Germany 7 per cent
I united Kingdom supplied 64 per
loant of the total imports, Germany 7 per cent
Java 6 per cent., Japan and the United States of Imports and by one per cent in exports with

Japan by 7 per cent in imports and by 31 per cent in exports and with the United States of America by 2 per cent in imports and by 20 per cent in exports

	<u> </u>	1914 15			 1913-14		Decr	ease in 19	14 15
	Im ports.	Ex ports includ lng Re-ex ports	Total,	Im ports.		Total	Im ports	Ex ports includ ing Re-ex ports.	Total.
	Ra (lakha)	Re (lakba)	Rs. (lakhs)	Ra (lakhe)	Rs (lakha)	Rs (lakhs)	Ra (lakha)	Rs (lakhs)	R. (iakbs)
ALLIES -				ļ	ı	,	Ŧ	1	
United Lingdom	92 94	57 64	1,50 58	1 17,58	58 3a	1 75 93	-24,64	-71	-2. 35
Belgium	1 63	5 27	6 90	4 2 6	12 10	1636	2,63	6 83	-9 46
France	1 78	8 84	10 60	2 69	1" 2	20 41	<b>⊷9</b> ₃	-8 8R	-9 81
Russia	4	187	1 91	0	2 4-	2 აქ	2	60	62
Italy	1 52	6 87	8 39	2 20	7 89	10 09	-6s	1 02	-1 70
Japan	4 44	1a 66	<b>20</b> 10	4.74	22 FB	2-4	-34	-7 03	—- J7
Total	1 02 33	96 la	1 95 48	1 317	1 21 24	2 12 -8	9 24	-25 07	_54 31
Examy Countries—									
Germany	4 6.	10 20	14 80	12 66	26 42	39 08	-801	16 22	24 23
Austria Hungary	1 29	4 53	5 82	4 29	10 01	14 30	<b>3</b> 00	-5 48	-8 46
lurk y	33	1 75	2 08	58	304	3 62	<b>—2</b> 5	-1 29	-1 54
Total	6 27	16 48	<del>22</del> 75	17 53	J9 47	57 (N)	—11 26	53 88	-34 25
VECTRALS	28 38	68 96	98 29	34,15	88 19	1 22 34	4 62	-19 23	-24 ();
GRAND TOTAL Foreign (Sea-borne trade).	1,87,93	1,81 59	3 19,52	1,83,25	2 48 88	4,32 13	-45 32	<b>—67 29</b>	1 12 61

#### Trade with Foreign Countries.

The chief competitor in the import trade was undoubtedly Germany, which for years has made a baid bid for the Indian market Her exports a build bid for the Indian market. Her exports such as cotton manufactures iron and steel hardware etc. have been serious competitors imports from India such as raw jute and cotton seeds, hides and rice have been serious competitors imports from India such as raw jute and cotton seeds, hides and rice have been taken in large quantities as the raw material for German industries. Assistis-Hungary sent sugar and particularly such as the raw india such as raw jute cotton, highest and sizes. The United States and Japan, passing the contribution. Japan countries in the latter are setting the opportu-

nities for developing their trade, brought about by the curtailment of trade on the part of the bulligerents

amoustes or a per some of the total export trade of India Of the exports nearly 92 per cont in 1914-15 was raw cotton Japan taking 42 per cent of the total raw cotton exported. In per cent of the total raw outen exported. In regard to imports, it will be noted that in cer-tain lines of the Indian import trade such as outen hostery and precessods silks, glass and glassware copper matches unbrells fittings toys one Japan a position is yearly growing in importance Japan has stuffed the Indian market more carefully than the majority of the importing countries, especially in regard to chesp and show articles for which there is a large demand. The goods are placed on the Indian market in the way which they are required and although frequently of very infurior quality are extremely cheap Japan has istablished commercial agencies and possesses the great advantages of a direct line of subsi increasing several of her exports to India the stoppage of imports of matches from Austria Ringary and the curtailment of these imports lakes or £222 300. The growth in Java trade from Scandinavia the imports from Japan in has been almost entirely in her exports of sugar creased. The imports from August 1914 to and in her imports of Indian lute goods March 1915 (i.e., from the outbreak of war), oplum and rice

amountate 8 per cent of the total import trade ( were 7,165,000 gross as compared with 4 684,000 gross during the corresponding period of the previous year Another example of the rapidity with which Japan saw a potential market on the outbroak of war was in regard to Pilsener beer She had studied the market for light table beers and knew how to advertise and to market directly and cheaply. The imports one from 6.33 gailous to 64.024 gailous. Instances could be multiplied. Notwithstanding the war there were noticeable increases in the year under re view in matches cotton grey piecegoods raw silk copper wrought (brasier and sheets), camphor glass bangles bottles funnels and globes, teachests wheat flour sugar 16 D S and above. cement liquors paper and pasteboard, and chemicals

Java has succeeded in capturing the sugar import market and like Japan is increasing her share of India simport trade. The year before dised steamers and low freights to India Short the war (1913-14) Javas total trade was ly after the outbreak of war Japan set about Rs 12 69 lakhs or £8 5 millions Ten years ago the trade was only Rs 447 lakhs or £1 6 millions and twenty years ago only Rs 33 lakes or 1222 300 The growth in Java trade

#### FRONTIER TRADE.

Frontier trade is carried on with adjoining foreign countries across a land frontier of approx ely 6 830 miles - The value is comparatively small being in 1914-16 about 6 per cent of the From the trade is carried on with adjoining income consists and a point of approximately 6830 miles. The value is comparatively small being in 1914-16 about 6 per cent of the sa-borne trade. It has increased recently in a very satisfactory way except in 1914-15. The principal imports across the land frontier are rice of lieseds provisions (cheigh into the form of ghi and pickled to a) cattle sheep and goats imported largely from Nepal horses ponies and mules cheigh from the Shan States at & from Shan and Karonnee in the eastern from the Torna other timber from the North West Fronter (Tirah) Dir Swat and Bajanc and Watrictan and the state of the sad forth and or a shaller cheigh from Afghanistan. raw wood mainly from Afghanistan and Fibrt and fruits and v.g tables chiefly from Afghanistan
The principal exports are cotton manufactures and year meetly of foreign origin the other exports among which spices m tells sugar tes and sail are the most important are no much amaller scale The tables below summarise some of the main facts of this trade

	1		(In laid)	s of rapecs.)			
<del></del>		1918 14		1914 15			
	Exports,	Imports	Total	Exports.	Imports.	Total.	
N W Frontier—			<u> </u>				
Alghanisten Dir, Swat and Bajaur Central Asia Persis	1 52 87 18 22	1,29 78 1 3	2,81 1 65 30 25	1 36 90 15 16	1,21 75 9 8	2,? 1,65 *4 19	
N and N B. Frontier— Nepal Tibet Skkim Shutan	2,05 20 16 18	4,83 33 31 21	0,38 53 47 39	1 91 18 16 18	3,85 85 29 22	5 76 53 45 40	
Eastern Frontier— Shan States W Ctime Stam Karennee (North Ten- assertm)	1,68 66 17	2,02 29 44 35	8,85 85 61 41	2,18 53 17	1,93 19 43	4 11 72 50	

Trade per head —India a trade per head of population is still low when compared with that of some other countries as will be seen from the following table —

Trade per head of Population in selected Countries. (a)

	Popu lation in mil lions	1900	1905	1910	1911	1912	1913 1914	Percentage decrease per thead as
	1	R« a	Rs. a.	Re a	RA. a.	Rs a	Rs a. R a	
India	315	6 4	1 8 8	10 11	11 6	12 8	13 3 11 13	10
Ruesia	164	16 0	18 6	24 7	24 3	<i>2</i> 3 4	24 10 17 6	— 2V
United Kingdom	45 g	273 12	285 2	33 <b>5 1</b> 0	341 10	36" 15	386 2 376 0	3
France	40	135 14	1 147 10	202 8	214 8	£26 0	232 3 1t7 10	-28
Germany	65	135 12	156 6	198 6	200 1.	210 12	230 II (h)	(b)
Italy	35	56 6	68 4	91 1ə	95 11	105 10	106 5 87 7	-18
United States	92	90 6	80 I4	110 9	119 0	136 10	136 3 131 2	- +
Jepen	J-0	17 7	26 9	28 8	2× 9	^ง 9 ′	397 6 q	<u>—</u> я
Chiza	400	2 2	3 1J	4 4	4 4	4 18	5 8 4 11	—15

<sup>(4)</sup> Figures are for the calendar ve in

The share of trade per head of population in India is 1 per cent of that of the United King dom 7 percent of France and 9 proon to of the 1 nited States of Am rice. In view of the effect of war on trade the decrease per cent per that of population as compared with the pervious via processory. It will be seen from the table above that the decrease in the case of India for the Calendar year 1914 is only 10 per cent.

Trade by Provinces.—Rengal has a much larger export and import business than Bombay the trade of Bombay and Sind being aim at equal to that of Bengal as regards imports but less a regards export. Bengal does most of the trade with throp a function and Australia while Bombay does the greater part of the trade with sharin pairs and Africa since the outbreak of war Bengal has don about half the export trade the sharis of the other provinces bing as follows—Bombay 19 per cent, Madray 12 per cent. Burna 19 per cent and Blud 9 per cent.

		Import   Rs (lakhs)	Lyport   Rs. (lakh)	lotal B. (lakh )	when in r cent
Bengal Bibar and Ori sa		,- <u>,-</u> ,-	74 47	1 81 64 5	41 2
Bombay Sind		16 10 1 11 59 1	49 12 20 0 8	9 22 91 <del>8</del> 7	29 8 9 9
Madras Burma		12 52	_1 61 16_6	4 13 26 81	10 7 8 4
	Total	1 47 93	1 81 50	3 19 52	100

Trade by Ports.—The trade of the chief ports and important subordinate ports is given ladis passance a very long sea board but very few harbours, and hence about 52 per cont of the feroign trade passes through the Sive chief ports, two of which are situated at a considerable dis-

<sup>(</sup>b) Twelve menths av rage not available

tance from the aca	The volume of the total trade in private merchandise passing through them
in 1914 15 declined	by 26 per cent

	- <del></del>	1903-04. E. (lakha)	Per cent.	1914 15 Rs ('akhs)	Per cent.
Calcutta Bombay Karachi Rangoon Madrae Lutteerin Chittagong	<b>₩</b> .	1 68,59 1 31,99 42,82 02 20 89 6 9,	39 31 10 8 6 1	1,27 34 95 19 91 67 23 27 10 34 5 51 4 29	40 30 10 7 5 2
	Total	4,10 2	9,	30 61	95

Inland Trade — The inland trade etum show where the commodities after importa-tion of the portage for communition and whence the ports draw their goods for export. They all allies the extent to when the averall reconsectances therefore commediate that the I value lajat me and a are to and i mine as illustrating the movements of toodatuffs one all attains of the infinite and is for the shole year both in quantity and vising gives the fol-l wing figure importanticy portract 144 000 tens, valued 4t Re 41) errors (4270 millions) is my tree with 17 1 000 valued at Re 447 prints (4.98 millions) in the private way.

#### INDIAN FISCAL POLICY

the Imposition of the present tight are detailed rection. This has been intensified by the in uil of he will isstoms (12) the tarifficiang me or a line competition of the Continent of Europe retain of the period with large facts thousand in circum citizens of manuscripted articles like top must hum strict dissipartation of minu loss rath text is matches and glassaure to hum intuits a intilifer the industrials resulted roll in conjugant as an experter of the further a million the industrials result to the real light and the country to the general to the general to the country to the general to prome with a tried outstail of a problem to the first an important to prome with a tried outstail of a sud-outside out and outstail the first and the found that the first reads would be found manager fields and one from the last designation pass only the life for the months of the months of the months and the found the found the found the foundation of the months of the month und a half per cont and in order to prevent s to this small turiff from a reising the slight of prof to indused a country illing velsa of their and a half per of rates I consist the cutton goods went in the Indian will prosent come of this impost or considered in the article on the Indian Cotton Parties Let (qx). I whose the general volume of Indian educate 1 pinton was in fixour of a fee trade policy. In it in co-tionals the octon was dutten as recognished reform t

The Becalevet mod India may be described as a test test. But with the growth of an appreciation of free trade with a modern thank floor vector of the tunus may importance of developing an purpose. They warrons stays with all distorting in injustries there has been a considerable. the found with the distribution of the modification munify will be found in first in the distriction the Impiral Lazabetis Connect of which a full summary is la 2 statis. Conneil of Which a full summary is a given in the Work of the Visibilities Councils (q). Noop mones space (1 b) the Editor of the Institut sees to out on both sides are get out be lown in flected by one who is convened that for trail is the flesh poles must suited for influence that the state of the sees 
#### INDIA AND FREE TRADE.

It is not infrequently charged against the printiple and processes of the maintenance of Irres maintenance from India will have irised for india that they are guilty of hypographical processes and that their real object ment of India then proposans to establish as to retain the Indian market for themselves from the appeal of the Indian market for themselves. This allegation can only be advanced by controversialists who shut their eves to facts, and ignore the opposition which free Traders is now a tributed to Free Traders. And it offer to attempts to introduce a Protective market for the processor. The position adopted by the Free Trader were to admit British goods into India facturers. The position adopted by the Free Trader were to admit British goods into India facturers. The position adopted by the Free Trader were to admit British goods into India facturers is that the present and ultimate concentrated to the process of the best markets for the satisfaction of their needs. The people of India enjoy this rights under membrandise purchased by India from the uniquely would be justifiable and apprepriate in his case. Commit to the concrete specified in the day should come when Great British and the control of the control of the the day should come when Great British and the form party at House secured a majerary and the control of the control of the day should come when Great British Betorm party at House secured a majerary in the case.

in Pattiannest, their real troubles would at indigenous industry. When this subject was case begin. It is one thing to indulge in vague rising the foreigner's goods, and another to frame that he would not shrink from imposing a Protective Tariff which would not cause duty of 80 per cent, or even more on imposing a Protective Tariff which would not cause duty of 80 per cent, or even more on imported serious dislocation of trade and inflict grave sngar. It was pointed out, however by firtherny on large sections of the community Gokhale, that in order to give effective pro-Difficulties would also arise here if the advoing the freedom's goods, and another to frame a Protective Tariff which would not cause serious dislocation of trade and inflict grave injury on large sections of the community Difficulties would also arise here if the acty cates of Protection in this country were gives a free hand to deal with import duties. Of the imports of foreign merchandles into India in the official year 1912 13 Rs. 28 crores consisted of food and drink A further Rs. 121 crores was made up of Raw material and produce and articles mainly unmanufactured Manufactured articles amounted to Rs. 123 manufactured articles anothers to no. 122 or errors, including large classes of manufactures which India does not produce. Considerably more than balf consists of cotton piece-goods and other articles of clothing. The framer of a Protective Tariff would therefore be confronted with the facts in the first place that a large proportion of the imports com-prise goods which are not produced in India, and, in the second that unless he taxed the clothing and the food of the masses his knowledge that the testive Tariff would be an exiguous quantity Among the food imports, sugar is by far the most important, amounting last year to Re. 14; crores. This commodity, because of its cheap-ness, is largely consumed by the poorer class-en. The greater portion of it comes, of course, from Java, where owing to the modern scien-tific methods adopted production is less costly and more efficient than in India. The most effective means of meeting the competition of the Java product is by improving the methods in vogue in India, and this fact happily is receiving practical recognition. But the Protectionists idea is to shut out foreign waar by taxation, a device which would enhance of Protection in the United States and are the price of a popular food and at the same acquainted with the conditions that obtain in time tend to perpetuate inefficiency in the India.

So per cent would be necessary

A widespread desire to doubt exists among
A midespread desire to impose import duties
on cotton cloth. The effect of such a tax
would be to riske the cost of the olothing of a population, the overwhelming majority of whom derive their livelihood from cultivating whom derive their inventoed from california, the soil. They have no voice in deciding the policy of the Government and no knowledge of the opinions and speeches of Indian public men. Their best interests are obviously served by enabling them to exchange their surplus produce on the most favourable terms for the manufactured articles which they require for their comfort or for the purposes of their daily their commer or for the purposes of their carriers avocations. This they can do under Free Trade, and it is the solemn duty of the Government to consider their needs rather than the claims of the wealthy and influential advothe claims of the westry and minemial satvo-cates of a Protective Tarif. Great industries have spring up in India without the adven-titions aid of Protection, and there is every reason to hope that the field will be greatly extended when wealthy Indians abow more willingness to embank their capital in industrial enterprises. But if any class of manufacturers succeeded in inducing the Government to sub-sidise it by means of Protective duties, a designing and unreasoning chamour would arise from many directions for similar favours. The grave possibilities that he here will be appreciated by all who have studied the history of Protection in the United States and are

#### INDIAN TARIFF POSSIBILITIES

Karachi Chamber of Commerce setting out the possibilities of a scientific term writes —

economic political and imperial consideration to the attainment of cheapness in consumption has never been recognised or admitted by Indian For this reason the abolition of the general five per cent Import duties in 1882 in obscience to the demands of English Free Traders aroused no enthusiasm in India. Nor did their re-imposition in 1894 (when the Governseem re-imposition in 1894 (when the Government of India, owing to financial stress, were compelled to seek additional revenues), lead to say general protest on the part of Indian consumers or othern. The 1894 Customs Tariff is still in operation. It is general design and modifications foresholds a departure from the rigid formula of the virtual Element of the virtual state. formulae of the extreme Free Trader Thus, although the reduction of the general 5 per cent. duty to 34 per cent, in the case of cotton piece-goods and certain other manufactured cotton, eds,and the imposition of a 34 per cent Excise Duty on the products of the Indian Cotton Hall Traffic with the United Kingdom and Hills, seven a depictable merifier of Indian in the Colonies.

The moves to the demands of the cotton manufactor and that the bandita to India sever at the English Midlands, the lower rate that would arise from the adoption of the principles.

Mr H. de P. Welb., O.I.E., Chairman of the carachi Chamber of Commerce setting out the possibilities of a scientific tariff writes.—

The appellency of subordinating every social, consumer political and imperial consideration the attainment of chrapmens in consumption the attainment of chrapmens in consumption as never been recognized or admitted by Indian willow the tariff for the encouragement of certain the consumption of the part of the properties of the part kinds of economic development in India This move in the direction of a scientific tariff is one that is heartly welcomed in India

> A further step towards a Tariff appropriate alke for Indian and Imperial requirements was taken in March, 1913 when the Hon Bir Gan-gadhur Chitnavis, Member for the Central Prowhere moved the following Resolution in the Imperial Legislative Council —— That this Council recommends to the Governor General in Council the desirabi-

lity, in view of the loss of the optum revenue of considering financial measures for strength on constant minimum matter of the government, with special reference to the possibility of increasing the revenue under a system of Preserve tial Tariffs with the United Kingdom and

ciple here indicated, would be well worth ternal trade. Thus, the manufacture in India the price that India might have to pay of sugar shawis, cotton, goods of low qualities, therefore Bir Gay Fleckwood Wilson on behalf of steel metal work, enamelled on carpetal lace, the Government of India, sympathetically reviewed the general attraction at some length, interest, toys, perfumes pendle lamps etc., the more of which over supplied in large quantities by therefor Bir Guy Flectwood Wilson on behalf of the Government of India, sympathetically re-viewed the general situation at some length, but suggested 'further consideration of the intricate and delicate issues before commit-ting the Imperial Council to the recommenda-tion embodied in Sir dangadhur Chitavis Resolution The Resolution was according-ly withdrawn Bir Guy Flestwood Wilson's very able speech will repay careful study

#### Tariff Reform League's Views.

Bome idee of the direction in which a scheme of inter Imperial Preferential Trade would tend, so far as India a concerned may be gather ed from the following extract from the official Handbook of the Tariff Reform League

Preference would mean to India that the United Kingdom and the Colonies would give freer entry to Indian tea coffee sugar wheat and all Indian staple products and it would mean to us that the Indian import duty on a large number of British manufactures would he either abolished or reduced "

The fact that India produces more wheat than any other part of the Empire and more tea, coffee, sugar cotton jute, indigs and other dye stuffs, olf-seeds undressed leather and cord age than all the rest of the Empire put to gether makes India s postton in any Imperial scheme of Preferential Trade one of paramount importance to all who aim at the progressive development of the Empire's Tariff Systems

#### Industrial Expansion needed

One of India s important needs and legiti mate ambitions at the present day is industrial

none of watch are supplied in large quantities by the United Kingdows could be encounaged by a scientific adjustment of the Indian Tariff With regard to Indian exports Great Britain could give encouragement to Indias wheat, jute indigo tes, coffee to bacco etc whilst Research returns could be approximated. Foreign nations could be approached with confidence if India possessed retailatory powers with regard to her tariff Russia's preference for Chinese tea for example might be modified if India s regard for Russian petroleum were restricted So too German's discrimination restricted So too Germany's discrimination with regard to manufactured jute cleaned rice. with regard to manuscurred the desaused noe, etc might be met by an Indian discrimination with regard to German manufactures. The United States and France might be similarly considered and all without the alightest risk to Indian or British commercial interests.

#### Protection must come.

These considerations bring us to the conclusion that India has much to gain economically and politically and little or nothing to lose by proceeding a step further in the development of her Tariff As the late Sir Edward Law pointed out it is the natural dearr of the great protectionist countries of the world to keep the peoples of India in the position of hewers of wood and drawers of water for their (i.e. foreign nations) manufacturers Ought such a situation to be tolerated when we hold the remody in our own hands? Can we expect the people of India to accept it with equan-mity? Obviously not It is sometimes thought by ngid free traders in the United Kingdom that England can continue indefinitely to impose her free-imports policy on India This is a grave misapprehension. Scorer or later pro-bably scomar India startif will have to be modimate ambitions at the present day is industrial [sequence of the present day is industrial] [sequence of the provide further occupant the free imports policy on India. This is a turnal industries, (2) to provide further occupant them for those located in districts table to grave misapprehension. Somer or later provides the provide further occupant in the properties of the provide further occupant in the provided in the properties of the formation and political leaders. Those views and home markets estimate and profitable for industrial and political leaders. Those views and home markets estimate and profitable for industrial provided in the provi

#### INDIAN COTTON DUTIES ACT

The origin of this fiscal measure dates back effect in the Indian Tariff Act of March 1894 to 1894 when the enhancement caused to the gave rise to very marked opposition. In superinsuces of India by the fall in exchange drove port of their policy the Government appeared to the Government of India to the necessity of the Resolutions pessed in 1877 and readinged in the Government of India to the necessity of the Resolutions passes in loss and remaining adopting measures to increase their sources of 1879 by the House of Commons, the first of revenue. Among these measures was the re-which had condemned the lovy of import duties imposition of the Cestoms Tariff which had been on cotton fabrics imported into India as "being imposition of the Cestoms Tariff which had been on cotton fabrics imported into India as "being the contract of the Cestoms Tariff which had been on cotton fabrics imported into India as "being the contract of the Cestoms Tariff which had been on cotton fabrics imported into India as "being the contract of the Cestoms Tariff which had been on cotton fabrics imported into India as "being the contract of the Cestoms Tariff which is the contract to contract the contract of the Cestoms Tariff which is the contract of the Cestoms Tariff which had been on the contract of the Cestoms Tariff which had been on the contract the contract of the Cestoms Tariff which had been on th in force prior to 1862 subject, however, to this contrary to sound commercial policy," waste difference that cotton yarms and tabrics, which had formerly been subjected to an import duty, to affect the complete abolition of these duties were in 1894, activitied from the list of dutiable as being unjust alike to the Indian consumer articles. This partial re-imposition of import and to the Empiral producer? It was, how duties hed been recommended by the Hamschell ever an open scoret that the decision to around commission which, in reporting in 1893 or the from the list of dutiable actively conscious which is reporting in 1893 or the from the list of dutiable actively considered the constitution of the decision of the Georgian of adding to the revenue as being the least likely to excite opposition. In point of last, however, State. It was partitudely pointed est that accommendation which is accommendation which is carried into the volume of trade in cotton goods and

in force prior to 1882 subject, however, to this contrary to sound commercial policy, " while difference that cotton yarns and fabrics, which the latter called upon the Government of India

yarms them represented nearly one-half of titled returns should be furnished was attempted the total imports from abroad and that the in respect of spinning mile. On the other hand excemption of these important commodities where the interpret of the interpret o

strong enough to induce the Secretary of State to reconsider the matter Yielding to the unit ed representations of the Government of India and of Indian public opinion. His Majesty's of Government eventually agreed to the re-imposition of import duties on cotton yarns and habrics provided that it could be shown that such a measure was necessitated by the position of Indian finances, and that it was combined with an Excise duty which would deprive the import tax of any protective character Accordingly in December 1894, consequent on the further deterioration in the financial position two bills were introduced in the Legislative Council were introduced in the Legislature Council The first of these subjected outton yarms and fabrico to the general import duty of 5 per cent ad valorem. The second imposed an Excise duty on all cotton yarms of 20 s and above pro-duced by Mills in British India. In introduc-ing this laster Bill the then Finance Minister, bir James Westland, was careful to explain that the policy underlying its provisions had been imposed on the Government of India by the Secretary of State in pursuance of the Re-solution of the House of Commons quoted above. Militian of the Education of this particular Bill are of The provisions of this particular Bill are of Hitle interest. From the first it was recognised that they were unpractical. Lancachire and that they were unpractical. Lancashire and Indian spinners disagreed as to the point at which the line should be drawn exempting Indian yams from the Excess Duty Practical diffi-culties were pointed out by Indian spinners as to the impossibility of spinning precisely to a particular count. From the Laicashire point of view it was contended that the Bill offered Practical diffi facilities for evasion while it was admitted that under the system adopted in the Bill, the taxa-tion of Indian and Lancashire products was not being carried out on a similar basis.

Act of 1896.—The Act was in fact doomed to be short-lived, and in December 1895 the Gov enterent of India were compelled to re-consider the whole position and to introduce an entirely new measure which became law in January 1896 as the Indian Cotton Dutles Act II of 1896 This measure proceeded from two conclusions, namely that no attempt should be made to namely that no estempt should be made to obtain any daty from yarns whether imported or locally manufactured, and that an equal rate of duty should be applied to all woven goods whether imported or of Indian origin. With the object of conciliating the opposition the rate of duty was fixed at 31 per cent. as opposed to the general rate of Contons duty of 5 per cent. The main provisions of the Act s per sent. The main provisions of the Act and political organizations in more recent provided that the assessment for the purposes years the agitation in favour of the shollition of sollecting the Excise duty should be based of the Excise duties has been revived by the relative provision should be made for a rebate in option in opposition to the policy of Free these provision should be made for a rebate in option in opposition to the policy of Free anse of wever goods exported cut of India. Trade Advantage has been taken of this Roceastol beyond a requirement that shalls-upon place in English economic thought to

yarms then represented nearly one-half of tical returns should be furnished was attempted

Excise Duties Imposed.—The opposition to this measure though it failed to secure the rejection in the Legislative Council, was strong enough to induce the Secretary of the secure was received in India. transient character as for instance that the Indian industry was then in a state of continu ed depression and that it had been hard hit, particularly in respect of its export trade, by tainty as to the fiscal policy of Government. In some quarters objection was affected to the ex-emption of varn which it was affected would place the Indian hand weaving industry at an advantage with the Indian power weaving industry But the hospilty to this measure, as also to the earlier measures already described, clearly proceeded from the feeling that the policy of the Government of India and of the Secretary of State had been diotated by Lancashire and that the action of Lancashire was due not so that the action of Lancaurre was our ray on much to the fact that there was any real com-petition between Indian and Manchester goods but to a desire to handloap the Indian industry whose progress was already causing uncasiness to Lancashire interests. It was argued that the imports from Lancashire were practically all of the higher counts, which, for climatic and other reasons, Indian mills could not produce that in any case the advantage to the Indian millower of the import duty was inconsiderable and was counterbalanced by certain draw backs arising from the interiority of Indian labour which could not be overcome and that this advantage, such as it was, could scarcely be said to have a protective character in view of the higher cost of initial equipment in the case of an Indian mill which has to import its machinery and of working expenses consequent on the scarcity of skilled labour and on the necessity of importing stores required in the production of cloth. Finally from the stand point of the consumer very severe criticism was directed against the reduction in favour of directed against the reduction in moved of imported cotton guods, of the general rate of duty from 5 per cent to 41 per cent on the ground that the effect of the legislation would relieve the richor classes who were consumers of the finer Manchester fabrics and impose new taxation on the poorer classes whose re-quirements were met by the Indian mills

> New Factors in the Situation —Since the pessing of this measure into law the policy of the Government of India in this respect has frequently been the subject of attack in the press and in the Legislative Councils while it has also formed the subject of continued re presentations by the industrial interests affected and political organizations. In more recent years the agitation in favour of the abolition

strengthened the position of those who are in opposition to the Excise duties is to be found in the severe competition which Indian mills have to face in China as well as in India from the Japanese industry The Japanese market was lost to India in the early years of this century More recently however Japan has entered as a competitor with India into the China market while within the last few years it has pushed its advantage as against Indian millowner in the Indian market itself.

Again it is claimed that the recent enhancement of the silver duty has materially affected the position of the Indian spinner who relied on the China market. On two occasions within the last five years the question of Excise duties has come prominently to the front as a result of debates in the Viceroy's Conneil The official attitude is firmly based on the position that the Excess duties stand and fall with the import duties. Against such an attitude all arguments based either on the advantages of a Protectionist as opposed to a Free Trade policy or on the handless to which the present system exposes the indian millowner can of ourse make no head way. The dovernment of India are confronted with a heavy recurring lost in their revenues as a result of the abolition of the opium traffic. The import duties on notion paces goods represent nearly fifteen per cant of the total revenue collected as Customs intoin pace-goods represent nearly fifteen per more marked. Looms numbered, in 1914-16 ont of the total revenue collected as Customs 104 186 as against 31628 in 1894-95 while the duty while the Excise duty steelf realised no production of cloth which averaged just under less than 47 lakis in 1912-13. The strength 30,000 000 yds in 1896-97 has advanced to of the arguments which support the Govern 115,000 000. Grey goods represent about ment position is so patent that the movement four fither of this total. For Excise duty in favour of the total abolition of the Excise which was estimated on the introduction of duty is gradually giving way to a feeling that the Act of 1896 to yield 14 lakis, yielded a solution may be found in maintaining the in 1914-15 512 lakis.

prose on behalf of india the acceptance of a Excise duty at its present rate while enhancing policy of Protection and the removal of the the import deties to the level of the general Excise duties is now claimed by the opponents rate of Customs duty. This policy which is application to the Etitish Empire of the principles associated with the name of Mr. Chamber lain. A new factor in the situation which has strengthened the position of those who are in our control to the Excise duties is to be found in least than 38 per cent. of the total import no less than 98 per cent of the total import trade in piece-goods foreign competitors, notably from Japan has reduced its share to 92 per cent and it may be expected that the success of this attack on the position of Lance shire will in the near future loom largely in the arguments of those who favour a modified form of protection within the Empire

> Statistics of the industry -The main statistical features of the industry may briefly be referred to in illustration of the effects of the be reterred to in illustration of the effects of the legislation discussed above. The total pro-duction of varu in Indian mulls has risen from an average in 1886 1990 of 443 million lbs to 652,000 000 lbs of which 134 000 000 were exported. In the lower counts the increase has been from 423 to 581 000 000 lbs. counts above 25 having increased from 20 000 000 yds to 60 000 000 lbs. On the other hand the imports of yarn from the United Kingdom representing about 6 per cent of the total production in British India have varied from 43,000 000 lbs to 37 000 000 lbs, of which 36 000 000 are of counts above 25 The number of spindles has mercased from 31 millions in 1894-95 to 6 634 969 millions in 1914-15

> The development of weaving has been even more marked, Looms numbered, in 1914-16

#### Banking in India

Of the three Presidency Banks the Bank of Bengal which commenced business in the year 1806 is by far the oldert. It was followed by the Bank of Bombay in 1840 and by the Bank of Madras in 1848, but the former was wound up in the year 1867 and the present Bank dates from the year 1868

To commence with and for some considerable time thereafter Government had a very large interest in all three Banks holding as they did a large proportion of the share capital and having the right to nominate a number of the Directors. It was decided however in 1876 that this connection should cease and Government holding of shares was accordingly realized on the Directorates was given up at the same time. Government are still entitled however, to audit the Banks accounts at any time they deem this pecessary to call for any in formation touching the affairs of the Banks and the production of any documents relative they deem this pecessary to call for any in formation touching the affairs of the Banks and the production of any documents relative thereto and may also require the publication of such statements of assets and liabilities at such intervals and in such form and manner may be thought fit. The Banks Agreements with Government are usually arranged for a period of ten years at a time and now-adays provide for the maste part for the carrying on at the head offices and branches of the ordinary banking busness of Government in India and for the management and conduct in the three Presidency towns of the Government Seank was at one time turnsted to the Bank, but this was handed over to the Peat Office in the year 1896.

#### Paper Currency

The Banks had the right to issue currency notes until the year 1862 but in that year this privilege was withdrawn and to compensate the Banks for being deprived of this right. Government decided to deposit the whole of their balances at the Presidency towns with the Banks. This practice held good until the year 1876, when the Reserve Treasuries were formed, but since that year Government balances, which are all payable at call, have only been maintained at a figure sufficient to meet the demands of Government and sufficient also to compensate the Banks in part for the work of keeping the secounts. There are signs however that Government intend to adopt a more liberal policy in future in regard to the balances they maintain with the Presidency Fanks. There is no definite undertaking on the part of Government to keep any balances with the Banks either at the head offices of each Bank failing below a certain stated figure, which varies in the case of each Bank, Government will pay interest on the Sacket.

#### Government Deposits.

The following statement shows the Government deposits with each Bank at various putteds during the last 40 years or so,

In Lable of repose.

IN LABOR OF TEPERS.						
	Bank of Bengal.	Bank of Bombay	Bank of Madras	Total		
30 June 1876 1881 1886 1891 1896 1901 1906 1911 1912 1913 1914	409 230 329 382 285 187 186 198 210 247 290 268	195 61 82 97 88 90 98 129 155 167 187	115 58 59 58 57 63 46 77 75 89 93 102	719 344 450 482 570 340 825 404 488 580 580		

#### General Banking Business.

This is regulated by the Presidency Banks Act, 1876 under which Act all three Banks are now working The various descriptions of business which the Banks may transact are clearly laid down in Sec 56 of the Act, and it is expressly provided in Sec 57 that the Banks shall not transact any kind of banking business other than those sanctioned in Sec. 36 Briefly stated the main classes of business which Banks may engage in are as follows—

- (1) Investing of money in any securities of the Government of India or of the United Kingdom of Great Britain and Ireland, the stock or debentures of or shares in Rallways bearing a Government guarantee in respect of interest and the debentures and securities of any Municipal body or Fort Trust in India or of the Bombay Improvement Trust and the attering converting and transposing of such investments.
- (2) Advancing of money against any of the securities specified above or against builton or other goods which or the documents of title to which are deposited with or assigned to the Bank as security
- (8) Advancing of money against accepted bills of Exchange and promissory notes.
- (4) Drawing, discounting, buying and selling of bills of exchange and other negotiable securities payable in India or Ceylon.
- (5) Receiving deposits.
- (6) Receiving accurities for safe custody and realisation of interest, &c., from con stituents of the Bank.
- (7) Buying and selling of gold and silver, whether coined or uncoined.
- (8) Transacting pecuniary agency business on commission.

  The principal restrictions pisced on the business of the Banks are as follows:

- (1) The drawing, discounting buying and selling of bills of exchange and other negotiable securities is confined to bills and securities payable in India and Caylon
- (2) Borrowing of money is only permitted in India.
- (3) Loans or advances upon mortgage or in any other manner upon the security of any immovable property or the documents of title relating thereto is expressly prohibited
- (4) The amous which may be advanced to any individual or partnership by way of discount or on personal security is limited to an amount prescribed in the Bye-Laws of the Banks such Bye-Laws having previously been approved by
- (5) Loans or advances cannot be granted for a longer period than six months at a time
- (6) Discounts cannot be made or advances on personal security be given, unless such discounts or advances carry with them the several responsibilities of at least two persons or firms unconnected with each other in general partnership

Various representations have been made to Government by the Banks to have certain. The proportions which Government deposits of these restrictions withdrawn particularly have borne from time to time to the total those referred to under Nos 1 and 2 which Capital Reserves and deposit of the three Banks latter effectually prevent the Banks from doing are shown below -

anything in the nature of a shange business and from having access to the London money market for borrowing purposes. The retrictions in question were imposed at a time when the Government deposits formed a very large proportion of the Banks total deposit and when also owing to the instability of exchange, there was some danger of losses being incurred in engaging in that class of business. The Banks have contended however that as Government deposite now form a very small proportion of the total deposits, and as exchange has definitely been fixed at 16 pence there is no further necessity for the restrictions; and have asked that they should now be withdrawn It has further been argued that as the Presidency Banks are the ultimate resort of the mone market in India, it is necessary in the interests of trade that the Banks should have some means open to them of increasing their resour-ces in India in times of pressure and that the hest means of giving them this power is to per mit them to borrow in London The Government of India were prepared to meet the Banks wishes in the above connection to a great extent In the year 1903 but the Secretary of State dld not approve of the Government proposals, and they were finally negatived in 1906

#### Government Deposits

In Lukhs of Rupees					
	1 Capital	2 Reserve	3 Government deposits	Other deposits	Proportion of Government deposits to 1 2, 3 & 1
31st December	1			1	
1881	350	61	333	542	2. 8 per cent.
18#6	350	82	352	625	24 9
1891	350	9-	297	1412	13 7
1896	250	1.38	299	1292	142,
1901	360	, 213	840	1463	14 3 ,
1906	860	279	307	2743	88 2
1907	360	294	935	9811	88 "
1908	\$60	309	325	2861	8 4 ,,
1909	360	318	319	3265	7 4 ,,
1910	360	\$31	425	3234	97
1911	360	340	438	3419	96 ,,
1912	875	361	426	8578	90 ,,
1918	875	870	587	3644	11 8 ,,
1914	875	386	561	4002	10 5 ,,

The Banks have also the management of the debt of a number of the Municipalities, Fort Trusts and Improvement Trusts throughout India.

ı

Givernment policy in regard to the disposal of their surplus treasury balances in India has been strongly criticized at various times during the leat thirty years or so and it has been argued that the high rates of interest which are so common a resture in India when the crops come to be marketed are to a very large seriest due to Government action in withdraw lang money from the market when it is most saeded and locking it up in the Reserve Treasuries. This question was considered at some length by the Royal Commission on Indian Finance and Currency q which arrived at the conclusion that the present methods of dealing with the balances were open to criticism. The Commission further stated that the most obvious remedy would be to done the Reserve Treasuries and place the whole of the Govern meet balances in the Presidency Banks but their final recommendation in this connection was that Govern meet should make loans from their balances to the Presidency Banks—such loans to be

within the absolute discretion of Government and to be graited only on good security and for short periods I is not known how far the Government of India are prepared to accept the Commission is recommendation in the respect but it is understood that the matter is presently under consideration.

The question of the ertablishment of a State but the constitution of the crashism of a State.

The question of the establishment of a State Bank was considered at some length by the Commission and a considerable mass of evidence was taken on this point. The opinions offered were however very conflicting, and although a draft scheme for such a Bank was drawn up two of the Members of the Commission, the Commission as a whole finally came to the Conclusion that they were not in a position to make recommendations one way or the other on the question of a State Bank. It was eug gested that a small expert body should be appointed in India to study the whole question and it is understood that the Government of India have the question of appointing such a Committee presently under consideration.

#### Recent Progress.

The following statements show the progress made by the three Banks within recent years -

In Lakes of Rupees
Bank of Bengal.

	Capital	Beserve	depo-	Other depo arts	Cash	Iuvest ments.	Dividend for year
list December	1	1 1			]	1 1	
1885	200	i 41 i	146	383	312	116	9i per cent.
1890	200	47	226	666	689	2016	8į .
1895	200	68	134	677	422	132	10
1900	′ 2×⊷	108	1.5	682	243	136	11
1905	200	140	167	1204	396	181	12 ,
1906	200	160	160	1505	528	149	12
1907	200	157	187 '	1573	460	279	12
1908	200	165	178	1576	507	849	13 ,,
1909	200	170	168	1760	615	411	14 "
1910	200	175	198	1000	514	268	14 "
1911	200	180	270	1677	729	821	14 ,,
1912	200	185	234	1711	66.	310	14 ,
1013	200	INI	801	1824	840	819	îi "
1914	200	240	287	2160	1109	621	16

#### BARK OF BOMBAY

1885	100	25	53	276	218	33	7	per cent
1890	100	83	83	619	573	78	10	_
1885	100	51	76	358	228	105	11	11
1900	100	70	87	482	120	89	11	
905	100	87	92	676	259	158	ĩŝ	
906	100	92	101	882	364	177	12	
907	100	96	112	821	324	104	18	,
<b>908</b>	100	101	94	832	877	149	18	_
909	100	105	120	1035	415	163	13	
<b>\$10</b>	1 109 l	105	152	1053	486	149	14	*
911	100	196	107	1104	463	208	14	.,
912	100	106	117	1124	835	210	14 14	•
411	100	106	200	1016	477	232	14	4
41.	180	110	188	1061	646	202	15	

#### HARK OF MADRAS.

	Capital	Reserve.	Govt depo- sita	Other depo- sits	Cash	Invest ments	Dividend for year
1885	50	8	81	107	76	19	7 percent
1890	50	14	47	220	155	45	104
1895	\$0	16	43	278	144	45	10 n
1900	60	22	8.5	260	82	67	6
1906	- 60	80	€1	844	140	71	10 ,
1906	60	32	54	3,5	151	81	10
1907	60	86	85	416	182	84	10 ,
1908	60	<b>4</b> U	62	447	163	84	11 "
1909	60	44	49	500	141	70	12
1910	60	48	72	584	184	86	12
1911	60	52	59	625	165	104	12
1912	7.5	70	7.5	743	196	118	îž
1918	75	73	86	805	219	117	12
1914	73	76	91	761	26	134	دًا .

Note—(The Banks have power under Sec 38 (I) to draw Bills of Exchange payable out of India under certain stated circumstances, but this permission is of comparatively little importance)

BANK OF BOMBAY

#### Branches BANK OF BENGAL

#### Calcutta-

Harrison Road Clive Street & Park Street. ga Akyab Allahabad Benaras, Campore Chittagong, Daoca Delhi Hyderabad Der can Jalpaigun Lahor Jucknow Moulmen Nagpore, Naraingunge Patna, Rangoon, Patna, Rangoon, Nagpore, Namingun Secunderabad, Simla.

Pay Offices Chandpore, Serajgunge and Bombay (Agency). Berwada Lrode

Ahmodabad Akoia Amraoti Broach, Hyderabad (Sind) Indore, Jalgaon Karachi, Poona, Rajkot, Sholapur Sukkur & Surat,

#### BANK OF MADRAS

lleppy Bangalore, Birnlipatam Callout, Coconada, Coshin Counbatore, Colombo Guntur Vadura Mangalore Masulipatam Nogapatam, Cotacamund, Salem Tellicherry Alleppy Tuticorin

Out Stations

Sarapur Rajahmandry and Vizlas agram.

#### THE EXCHANGE BANKS

The Banks carrying on Exchange bush less ; in India are merely branch agencies of Banks having their head offices in London, on the Continent, or in the Far East and the United States. Originally their business was confined almost exclusively to the financing of the ex armost excusavely to the innacing of the ex-ternal trade of India, but in recent vears most of them, while continuing to finance this part of India a trade, have also taken an active part in the financing of the internal portion also at the places where their branches are situated

At one time the Banks carried on their opera At one time the Banks carried on their opera tions in India almost entirely with money borrowed elsewhere, principally in London—the home offices of the Banks attracting deposits for use in India by offering rates of interest much higher than the English Banks were able to quote Within recent years how ever it has been discovered that it is possible to attract deposits in India or quite as favour able terms as on he dieas in London and a work able terms as can be done in Loudon and a very able terms as can be done in London and a very large proportion of the financing done by the Exchange Banks is now carried through by means of money actually borrowed in India. Ro information is available as to how far each Bank has secured deposits in India but the following statement published by the Director-General of Statistics in India shows how rapidly such deposits have grown in the aggregate within renew years. within recent years.

TOTAL DEPOSITS OF ALL EXCHANGE BANKS

	SECURED IF IN	OLA.
	In Lakks of Rup	¥61
1875		106
1880		339
188.		475
1890		753
1895		1630
1900		1050
1901		1183
1002		1870
1903		1614
1904		1682
د190		1704
1906		1806
1907		1917
1908		1961
1909		2027
1910		2479
1911		2816
191ა		3103

#### Exchange Banks Investments.

Turning now to the question of the invest-ment of the Banks resources, so far as it comcerns India, this to-a great actent consists of the purchase of bills drawn against imports and exports to and from India. The financing of the import trade originated and is carried through however for the most

at maturity and in furnishing their other branch of with information as to the means and stand of with information as to the inits and it is as re ing of the drawes of the bills, and it is as re gards the export business that the Indian Branches are more immediately concerned The Exchange Banks have practically a monopoly of the export finance in India and in view of the dimensions of the trade which has to be dealt with the Banks would under ordinary proportion of their resources in carrying through the business. They are able however by a system of rediscount in London to limit the employment of their own resources to a com-paratively small figure in relation to the bust ness they actually put through. No definite bills in anticifation of a fall in the London information can be secured as to the extent discount rate while on occasions also the Banks an or secured as to the extent to which rediscounting in London is carried on but the following figures appearing in the balance sheets dated 31st December 1914 of the undernoted Banks will give some idea of this.
LIABILITY ON BILLS OF EXCHANGE RE-DIS-

COUNTED AND STILL CURRENT

Chartered Bank of India	3 871 000
Rastern Bank Ld	1 074 000
Hongkong and Shanghai Banking	11 584 000
Corporation Mercantile Bank of India, Ld. National Bank of India, Ld.	1 788 000 4 037 000 21 854 000

The above figures do not of course relate to re-discounts of Indian bills alone, as the Banks operate in other parts of the world also, but it may safely be interred that bills drawn in

India form a very large proportion of the whole The bills against exports are largely drawn at three months night and may either be clean

part by Branches outside of India, the Indian or be accompanied by the documents relating Branches' share in the business consisting print to the goods in respect which they are drawn dpally in collecting the amount of the bills! Most of them are drawn on well known firms Most of them are drawn on well known firms at home or against credits opened by Eashks or financial houses in England and bearing as they do an Euchange Bank endorsement they are readily taken up by the discount houses and Banks in London Any bills purchased in India are sent home by the first possible Mail so that presuming they are rediscounted as soon as they reach London the Exchange Banks are able to secure the return of their money in about 16 or 17 days instead of having to wait for three months which would be the case if they were unable to rediscount. It must not be assumed however that all bills are rediscounted as soon as they reach London as, at times it suits the Banks to hold up the prefer to hold the bills on their own account as an investment until maturity

The Banks place themselves in funds in India for the purpose of purchasing export bills to a variety of ways of which the following are the principal —

(1) Proceeds of import bills as they mature.

(2) Sale of drafts and telegraphic transfers payable in London and elsewhere out of India

(3) Purchase of Council Bills and Telegra phic Transfers payable in India from the Secretary of State

(4) Imports of bar gold and silver bullion Imports of sovereigns from London Egypt or Australia

The remaining business transacted by the Banks in India is of the usual nature and need not be given in detail.

The following is a statement of the position

of the various Exchange Banks carrying on business in India as at 31st December 1914

#### In Thousands of L.

-10 -1-0000					
Capital	Reserve	Deposits.	Cash and Investment		
1200	1800	18616	9_81 9518		
837	23	1447	858		
1500	3320	329 31	790 11308 2589		
562	500	5152	1947 5283		
4745 \$000	2500 2008	35847 18602	7884 6702		
	Capital.  1200 8000 837 598 1500 650 562 1000 4745	Capital         Reserve           1200         1800           8000         1638           537         22           598         55           1500         3.42           650         55           100         100           1000         1100           4745         2500	Capital         Reserve         Deposits.           1200         1800         18416           8000         1638         63097           337         22         1447           598         55         1305           1500         3.22         329.31           650         489           662         500         5152           1000         1100         14832           4745         2500         35847		

#### JOINT STOCK BANKS

Previous to 1906 there were few Banks of After that time there was a perfect stream this description operating in India, and such as of new flotations, and although many of the new were then in entitioned were of comparatively confined to themselves to legitimate to make the brainess confined themselves to legitimate the brainess confined themselves to legitimate the braining business, on the other businesses in addition, and to a very restricted area. The rapid development of this clear of Banks, which bears on starked a feature in Banking within means years, really had its origin in Rombay in the first few years of their existence, but it the first few years of their existence, but it was generally suspected in well informed circles of India and the Indian Sposie Reak in 1908.

of a very speculative and tensafe character and It was a matter of no great surprise to many people when it became known about two years ago that some of the Banks were in difficulties.

The first important failure to take place was that of the People a Bank of India and the loss that of the People a Bank of India and the loss is very unfortunate as many of the Banks, resulted in a very large number of other hallows he principal being that of the Indian Specie Bank.

The following shows the position of the better known existing. Banks as it appears in the latest available Balance Sheets — In Lathe of Rupes.

	Cash a			
<del></del>	Capital Reservo.	Reserve.	Deposits.	Investments
Allahabad Bank, Ld. Alliance Bank of Simia Ld	30 20	45 40	521 576	142 284
Bank of Baroda, Ld Bank of India, Ld	10 30	3 5	93 254	22 68
Bank of Mysore Ld Bank of Rangoon, Ld.	10 16	4	#0 \$1	1 <b>2</b> 12
Bengai National Bank Ld Bombay Merchanta Bank, Ld	8 14	11	4	
Centrai Bank of India, Ld Indian Bank, Ld	15 10	111	48 92	31 10
Karachi Bank Ld. National Financing and Commission Corporation Ld	16		3	7
Ordh Commercial Bank, Ld Poona Bank, Ld	5 11	4‡ 1	4	
Punjab Banking Co. Ld Punjab National Bank, Ld.	6 15	121 10	119 78	46 42
Standard Bank, Ld.	,10		11	1

The principal Banks which have sone into liquidation during the last twelve or eighteen months are given below along with a Statement of their Capital Reserve and deposite as at the date of the latest available Balance Sheets— In Labbe of Russes

2 · · · · · · · · · · · · · · · · · · ·				
	Capital	Reserve.	Deposits.	
Bank of Upper India (1912)	10	D	191	
Bombay Banking Co	1	†	15	
Credit Bank of India, Ld	10		51	
Indian Specie Bank Ld	75	15	270	
Kathlawad and Ahmedabad Banking Corporation	7	1	23	
Lahore Bank, Ld (1913)	1	!		
People s Bank of India, Ld.	12	2	197	
Punjab Co-operative Bank, Ld (1912)	7		06	
the Ploneer Bank	3-84		1 96	
		ı	1	

	wik of Jeini			1	Capital.	Reserve	Deposits.
of the Bire	ving figures ar ctor General c the Capital, . cipal Joint S	of Statistic Reserve an	s shows the rd Deposits	1900	63 82 64 133 229	81 45 77 56	569 607 1198 1155
bet TaidTib	in Laki	s of tupes		1905	289	55 69	1400 1626
1870	Capital,	Reserve 1	Deposits. 18	1909 1910	266 275	87 100	2049 2563
1875 1880	14 18	3	27 68	1911	<b>28</b> 5 (apial & I	<b>126</b>	2529 Sports
1885 1890	18 33	5 17	94 270	1913	361		2269

# NATIVE PRIVATE BANKERS AND SHROFFS

Native private Bankers and Shroffs flourished | dependent on two factors, vir., (1) the limit India long before Joint Stock Banks were which he himself may think it advisable to ret thought of, and it seems likely that they place on his transactions and (2) the extent to in India long before Joint Stock Banks were in India long before Joint Stock Banks were ever throught of, and it seems likely that they will continue to thrive for some very considerable time to come. The use of the word "Skroff" is usually associated with a person who charges numinous rakes of interest to im pecunious people, but this is hardly fair to the people known as "shroffs" in banking circles, as knere is no doubt that the latter are of very real service to the business community and of very great assistance to Banks in India. Under very great assistance to hears in india. Outer present conditions the Banks in India can never hope to be able to get into aufficiently close touch with the affairs of the vast trading community in India to enable them to grant accom-modation to more than a few of these traders direct, and it is in his capacity as middleman that the shroff proves of such great service that the shroff proves of such great acruce. In this capacity also be brings a very conelderable volume of business within the scope of the Frendency Banks Act, and enables the Frendency Banks to give accommodation which, without his assistance, the Banks would use be permitted to give. The shroff's position, as no intermediary between the trading communication after the following manner A Shopkooper in the banks with limited means of his own finest that, after using all his own money, he keeper in the hassar with limited means of his own, finds that, after using all his own money, he still requires say Rs. 25 000 to stock his shop suitably He therespon approaches the shroft and the latter after very careful inquiries as to the shopkeeper's position grants the accom-molation, if he is satisfied that the business is asks. The business, as rule, is arranged through a boundes broker and in the case returned to the latter ware mobality amovanch shout ten the latter may probably approach about ten bends and secure accommodation from them to the extent of Rs. 2,500 each. A houndee namely draws at a currency of about 2 months is almost invariably taken by the shrofts in respect of such advances.

A stage is reached however when the demands on the shrofts are greater than they are able to on the shrofts are greater than they are able to meet out of their own money and it is at this point that the assistance of the Banks is called into requisition. The strong do this by taking a number of the bills they already hold to the Banks for discount traiser their endomenant and the Banks accepts such bills freely to a switch-deturnined in each case by the standing of the shoot and the armship of the drawers. The exficit to which samp soe should may grant accommodation to the banks of therefore which the Banks are prepared to discount bills bearing his endomement. The shrof's keep in very cluse touch with all the traders to whom they grant accommodation and past experience has shewn that the class of business above referred to is one of the safest the Banks can engage in

The rates charged by the shroffs are usually based on the rates at which they in turn can discount the bills with the Hanks and neces sarily vary according to the standing of the bor rower and with the season of the year Generally speaking however a charge of two annas per cent per mensem above the Bank s rate of discount or 1; / is a fair average rate charged in Bombay to a first class borrower Rates in Calcutta and Madras are on a slightly higher scale due in a great measure to the fact that the competition among the saroffs for business is not so keen in these places as it is in Bombay

The shroffs who engage in the class of business above described are principally Marwaries and Multanis having their head Offices for the most part in Bikanir and Shikarpur respectively the business elsewhere than at the Head Offices being carried on by Moonims who have being carried on by Moonims who have very wide powers.

It is not known to what extent native bankers

and shroffe receive deposits and engage in exchange business throughout India, but there is no doubt that this is done to a very considerable extent.

Since the outbreak of war many of the abroffs particularly those of the Marwari community have discontinued their kndoring business to a large extent and in some cases they have actually closed their places of business and re tired to their native places. The small trader who formerly relied on the shroffs to provide them with funds have been greatly hampered in business in consequence and some indication of the restriction of credit ari ing from this cause may be gathered from the following figures re lating to the discounts of the Presidency Banks

Discounts current on Discounts current 30th June 1913 on 30th June 1915

Bank of Bengal Bank of Bombay Bank of Madrae		204 Jaca, 96 , 82 ,
	790 IA06	864 lacs.

# THE BANK RATE.

Each Presidency Bank fixes its own Bank rate, and the current rate of each Bank determines to a great extent the rates for all important classes of business within the Bank a sphere of influence. The rates in the three Presidencies are not always uniform, but it seldom happens that a difference of more than 1%, exists more particularly as regards Bombay and Bengal, which seem to be in closer touch with each other than appears to be the case with Madras

The rate fixed represents the rate charged by the Banks on demand loans against Government securities only and advances on other securities or discounts are gracted as a rule at a slightly higher rate. Ordinarily such advances or discounts are granted at from one-half to one per cent. over the official rate but this does not always apply and in the monsoon months, when the Bank rate is sometimes nominal, it often happens that such accommodation is granted at the official rate or even less.

The following statement shows the average Bank rate of each Bank since 1881 --

	Bar	Bank of Bombay		k of Bombay Bank of Bengal.			Bank of Bombay Bank o		gal.	Bar	k of Ma	iras.
1ear	let Half year	2nd Hali year	Yearly average	1st Hell year	žnd Half Vear	Yearly average	1st Half year	2nd Half Year	Yearly			
881	ر ا	ა 28	5 69	4 862	6 717	5 289	1					
882 833	8 08 7 00	4 19 6 2	6 10 6 6	8 177 6 994	5 022 5 560	6 599 6 777						
884	9 03	4 17	8 60	8 818	3 946	6 379			1			
866	5 90	4 00	4 95	6 757	4 005	5 381						
886	6 83	6 50	6 42	5 923	0 1.2	8 037			1			
.887	7 78	3 73	a 75	7 475	3 804	3 639						
888	Б 90	5 51	5 70	5 736	5 185	5 460			5 6			
889	9 46	4 00	0 73	8 309	4 874	8 991			0.8			
890	9 21	3 28	6 24	8 265	3 315	5 790			5 2			
891	8 B8	2 23	3 05	8 202	2 622	3 062			1 2 9			
892	3 97	3 04	8 50	3 884	3 114	3 499			3 1			
898	5 97	3 84	4 90	5 685 7 425	4 076	4 880			5 1			
894	7 55	3 46 3 60	5 50 3 95	7 425 5 066	8 364 8 592	6 394 4 829			4 1			
895	4 80	3 00	2 40	\$ 000	a sale	* 326			1 .			
896	5 85	5 10	5 47	5 774	5 608	5 691			8 6			
897	10 11	5 64	7 87	9 884	6 967	7 925 8 065			7 7			
898	12 03	4 55	8 29	11 016	5 114	8 000			"			
1899	6 34	5 42	5 88	6 337	5 494	5 915			* (			
1900	8.9	3 79	5.84	8 414	4 272	5 343		4 09	5 1			
1901	7 07	3 83	5 45	6 895	4 070	5 482	7 57	4 00	5 8			
902		8 43	4 84	6 176	3 549	4 862	7	4 02	5.1			
1903	) 0 (	8 48	5 09	6 265	8 494		7 18 6 42	4 27	5			
1004	5 15	3 82	4 48	8 560	4 190	4 875	D #Z	4 01	5			
1905	5 77	4 42	5 09	5 558	4 630		6 04	4 19	5			
1906	7 24	5 28	6 26	6 950	5 885	6 417	7 15 8 24	5 04 4 54				
1907	7 81	4 11	5 96	7 685	4 576	6 105	8 14	4 54				
1908	7 84	4 02	6 98	7 417	4 244	ь 880	8 88	4 88	6			
1900	6 47	3 82	5 14	6 580	8 907	5 243	7 55	4 41	6			
1910	6 19	4 14	5 16	6 148	4 510	5 326	7 17	4 65	5			
1911	8 55	3 52	5 03	6 657	4 858	5 507	7 59	4 36				
1912	6 01	4 10	5 08	6 248	4 592		7 51	4 50				
1918	7 28	4 62	5 92	6 569	5 881	5 950	7 76	5 54	6			
1014	5 52	5 28	5 40	5 939	4 961	5 450	0 68	5 16	5			
1915	5.84	,	1	5 889	]	]	# 87	]	]			

Bank of	Bomb	Ŋ	Bank	of Be	ga	L	Bank of Madras		
Date.	_	Rate	Date, Rate.		Date	».	Rate		
1904		Per cent.	1905			Per cont.	1902		Per cen
Pebruary		7	February	- 1.	23	7			i .
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etober	18	1	l .	Ì		ļ	June	29 12	8 7 8 5
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Bank of Bomb	зу	Bank of I	Bengal.	.	Bank o	f Madı	TMB.
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October 22	1 4	1909		! '	1908	1 .	
Yovember 5	5	January	14	7	January	10	8
December 10	8	March	28 18	8 7	February May	18	Š
1909		Anril	29	6	шау	1	"
January 16	7	April May	27	5	June	15	7
May 13	, 6	June	17	) 4	_ 1	25	6
	.	July	1	3	July	17	5
Jane   3	5	<b>September</b>	30	4	November	30	4 5
July 1>	4 3	November	13	5	December	10	6
November 4	4	December	1 9	6	1909	1	_
18	1		} _	ł	January	12	7
25	е	1910	_	_	·	28	<u> </u>
1910	7	March	12	7	Tune	17	5 8 7 6 5
	6	May June	12	5	r	28	5
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November 3	6	December	1	'	January	4	7
December 13	7	1911			, , ,	1	i
1911	1	February	23	8	Warch	7	8
Via3 19	6	March	30	7	May	19	7
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Jal'v   13	3	August	l Ta	4 3	July	4	4
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December 21	5	September	1 28	5	l	16	\ <u>6</u>
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Bank of	Bank of Bombay Bank o			i Bengal		Bank of Madras.		
Data.		Rate.	Date,		Rate.	Date		Rate.
1914 Jenuary May Jenua Angust	15 21 4 25 6	0 5 4 3 4	1914 March May June July Auzust November	19 1 4 9 6	6 5 4 5 6	October 1914 January May June August	1   2   25   8   23   21	7 6 5
1915 June December	20	6 8	1915 June December	ĩ	3 6	Outober 1913 June Dec mber	12	6 5 6

# BANKERS CLEARING HOUSES.

The principal Clearing Houses in India are during the course of the day and the latter in those of Calcutta, Bombay Madras and ha turn arranges to pay on receipt of those amounts rachi, and of these the first two are by far the the balances due to the creditor Banks. In nacts, and of these the first two are by far the most important. The members at these places consent of the Preudency Banks, most of the Exchange Banks and English Banking Agency firms, and a few of the better known of the local Joint Stock Banks. No Bank is entitled to claim to be a member as of right and any application for admission to a Clearing must be proposed and seconded by two members and be subject thereafter to ballot by the ex usting members.

The duties of settling Bank are undertaken by the Presidency Bank at each of the places entioned and a representative of each member attends at the office of that Bank on each busi ness day at the time fixed to deliver all cheques he may have negotiated on other members and to recove in exchange all cheques drawn on him negotiated by the latter After all the cheques have been received and delivered the representative of each Bank advises the settling Bank of the difference between his total receipts and deliveres and the estiling Bank threather strikes a final balance to estiling itself that the totals of the debtor balances agrees with the total of the creditor balances. Sented on the Clearing agrees with the total of the creditor balances. The debtor Banks thereafter arrange to pay the figures for the Clearing Houses in India the amounts due by them to the settling Bank above referred to are given below —

during the course of the day and the latter in turn arranges to pay on recept of those amounts the balances due to the creditor Banks. In practice however all the members keep Bank accounts with the settling Bank so that the final balances are settled by cheques and book entries thus doing away with the necessity for cash in any form.

The Clearing House figures can usually be taken as giving some indication as to the con-dition of trade and to some extent also as to how far the banking facilities available are being taken advantage of but in the latter respect at all events the statistics for India do not form as useful a guide as those in most other countries. This is due to the fact that hardly any of the numerous Joint Stock Banks which have been formed within recent years have so far been admitted as members of the various Clearing Houses and as few if any of these Banks have obtained the assistance of two members in having their cheques cleared the Clearing House returns neerly represent the transactions of the members and do not include in any way the totals of the cheques drawn on or negotiated by Banks not repre-sented on the Channa

Total amount of Choques Cleared Amountly

In value of temperature								
	Calcutta.	Bombay	Madras,	Karachi.	Total.			
1901	Not available	6 511	1 838	178	6 027			
1902 1905	'	7 013 8 762	1 296 I 464	268 340	8 576 10,6 <b>6</b> 6			
1904		9 492	1,586	365	11,898			
1906		10 027	1 560	824	12,811			
1906 3007	22,444	10 912 12,545	1,58 <b>2</b> 1,548	400 580	12,895 87 167			
1807 1808 1808	21,281	12,585	1,754	543	86,568			
3000	19 776	14,375	1,948	702	86,801			
1019 1011	22,238 26 763	16 652 17 605	2,117 2,083	755 762	41 762 48,218			
1918	28,631	20,881	1,159	1,159	52,834			
1912	23,123	21 890	2,340	1,219 1,515	68,582 49 169			
1914	20,081	17,696	2,127	1,510	49 108			

# Government of India Rupes Louns.

The following are the Loans in the hands of the public still extent, all the others having been extinguished either by conversion or by discharge -

(1) Three & a half per cent, loan of 1842-43 Ditto (2 (8) Ditto 1865 (4) Ditto 1870 1896-97

(5) Three per cent. loan of

- (6) Three & stall per cent. loan of 1900-01 (7) 4 per cent Terminable loan of 1915-16
- The first four of these loans were made remyable at the option of Government on or after 31st July 1904 on three months' notice being given so that the position now as regards these loans is that Government are at liberty

to discharge them at any time on giving three months notice In view however of the necessity of fresh borrowings by Government this power is not likely to be exercised for some considerable time to come

The 31 per cent. Loan of 1900-01 is repay able, also at the option of Government, on or after 31st December 1920 on three months notice being given and all hears issued since the year 1900 have been included in and form

part of the 1900-01 loan.

In 1896 Government resolved in view of the casy condition of the money market to try the experiment of borrowing at 3 per cent and the loan of Rs 4 cross raised in that year was accordingly issued bearing that rate of interest accordingly issued bearing that rate of interest. The opportunity was also taken to advertise for discharge the two 3½ per cent leans of 1863-54 and 1893-94 but proprietors of these leans were given the option of transferring their holdings to the new 5 per cent. lean. The Rs. 4 rores lean was successfully floated and appear of to be a great success but it was soon seen that the public had no use for a 8 per cent. Leantly and Government have never recent. security and Government have never repeated security and Government have never repeated the attempt to borrow at 8 per cent. The successful tenderers for the lean of 1898-97 experienced great difficulty in disposing of any part of their holdings and as through course of time the notes became practically unmarketable it was generally felt that Government must do something to improve the market for the notes. Various proposals were autumited to Government with this end in view but the latter delayed taking any action in but the latter delayed taking any action in the matter until the year 1908. Such action took the form of giving holders the option of converting their 8 per cent, notes into 3 per cent, notes of the 1900-01 loan on the following terms —

- (1) If the face value of the 3 per cent. notes tendered for conversion is an exact multiple of Rs. 700 the tenderer will receive in exchange 3; per cent. notes for 6-7ths of such face value.
- (2) If the face value of the 2 per cent, notes tendered for conversion does not form an exact multiple of Rs. 700 the tenderer has the option of receiving-
  - (a) by per cent. notes equivalent to the

(3) \$\frac{3}{2}\$ per cent, notes of the nearest higher equivalent face value in hundreds calculated as in Clause I on payment in cash of the difference between (i) 6-7ths of the face value of the 3 per cent notes tendered and (ii) the face value of the 3th per cent notes tendered and continuous face of the state of

The above offer is still in force but Government have reserved the right to withdraw it at any time on giving 6 months notice. The balance of the 8 per cent loan stood at Ba. 10 95 lace on \$1.15 March 1897, at Ba. 11,07 lace on \$06th September 1903 and at Ba. 8,42 lace on \$1.15 March 1918 The work connected acc on Siss march 1916 are were consequent with the payment of interest, dec. on Govern-ment loans is entrusted to the Preddency Banks in the 3 Presidency towns, to the Dutrice Treasuries elsewhere in India, and to the Bank of Ragiand in London.

The 4 per cent Terminable Loan of 1915-1916 was issue dat parin August 1915 and the Loan if not previously redocmed will be repaid at par on 30th November 1923 Government how ever reserves the right to redeem the loan or any part of it at any time on or after the 30th November 1920 on giving three months notice A new departure was made when issuing this loan—the public were parmitted to make applications through the Post Office for sums not exceeding Rs 5 000 Such applications re o ited allotment in full The offer remained open until 30th Oct and resulted in a further subscription of forty four lakhe.

Government debt may be held in the form of promissory notes or Stock Certificates but Notes or Certificates can only be resued in even hundreds of rupees. Promissory notes are transferable by endorsement and as such transfers do not require to be registered it follows that Government do not keep any record of the bolders of such notes from time to time. A holder of a Stock Certificate is a registered holder however and transfers can only be made by transfer deed which must be submitted to and approved of by the authorities conduct-ing the loan business on behalf of Government.

The question of issuing Bearer Bonds with or without coupons attached, is presently being considered by Government and it seems likely that this form of security will be issued in the near future

Interest is payable half yearly on each loss on the dates noted below

Loan of 1842-48 1st Febry & 1st August. Loan of 1854-55 30th June & Sist Door let May & 1st Nove Loan of 1865 Loan of 1879 16th Jany & 16th July Loan of 1896-97 30th June & 31st Door Loan of 1900-01 Soth June & Stat Decr.

Interest may be made payable at the option of the holder at the Public Debt Office Banks of Bengal, Bombay or Madras, at any Government Treasury, or at the Bank of England, Lonnesters lower multiple of Ha. 700 call of the difference in B per seat. I cause of Frozillary Notes, presented the difference in B per seat. Rather, or is payable in necessary before inference come in the control of

drawn but this does not apply as regards Stock Continuous and interest warrants in respect
of these are sect out to the registered holder
as soon as interest falls due. The interest on
moles enhanced to London is paid by rupes drafts on India.

# Renewal, Conversion, Consolidation and Sub-Division of Promissory Notes. RESEWAL.

When all the spaces reserved for endorsements on the reverse of a note have been filled ments on the reverse of a note have been filled up or when the spaces ntilized for recording payments of interest have been exhausted the note requires to be renewed before any further translers can be allowed or interest drawn. The fee for such renewal is at the rate of 1 per cent, on the face value of the note and ject to a maximum of Rs. 1 for each note but no renewal fee in charged in the case of a note on which no endorsements appear when the interest charges are expended.

# CONTRRBIOR

Promissory Notes of the 31 per cent. loans of 1843-43, 1854-55 1865 1879 and 1900-01 may be transferred to any other of those loans except that no transfer to the loan of 1900-01 from any of the other loans is admissible.

It is made a condition however before any such transfer is permitted that a full half year's interest is due on the Promissory Note at the time it is presented for transfer

The fees charged are the same as those appli-cable to renewals.

# CORROLIDATION AND SUB-DIVISION

Heles of the same less on which interest has been paid up to the clame date, may be cannollated at notes may be sub-divided into subban of smaller denominations, but of the same lean, at the option of the proprietors, makes caty being issued for Rs. 100 or multi-ples of Rs. 100

The fee charged is at the rate of i per cont. on the face value of the new notes received subject to a maximum of Rs 1 for each note.

The management of the debt in England is entrusted to the Bank of England who are paid commusion at the rate of 2300 per million pounds in respect of the sterling debt and £400 per crore of rupees in respect of the rupee debt. The charge for the latter is however subject 000 82 to muminim a ot

# Quotations for 3) per cent. Government of India Loans.

	ar comit Dearest	•
Jany	Rupes Loan. Rs.	Sterling Loan. £
1896	103 6 per cent.	112 per cent.
1896	105 7	117 ,,
1897	98	1184
(1898	95 13 p	117 ,
1899	94	116} ,
1900	95 10	110
1901	96	108
1902	95 14 ,	108
1908	97 9 "	107
1904	95 2 ,,	103
190ა	98 1 ,	1061
1906	97 14	1051
1907	957,	104
1908	96 3	1021 "
1909	94 11	99
1910	98 7	961
1911	95 1 ,,	954 ,,
1912	96 2 "	94 "
1918	94 9 ,,	91 7-16
1914	95 10	85± ,
1915	81 (Dec.)	Yominal
	, 1	

# FAILURES OF INDIAN BANKS

tical position of all these banks was set out 11 in Bombay 9 in the United Provinces 2 in in tables. For complete details of this painful Madras 2 in the North-West Frontier Province episode in the financial history of the country 2 in Delhi, and I each in Bangalore and Bahu majorence must be made to that volume. The chistan. The most important failures in each results of this Acute commercial crisis are sum marised below and the liquidators reports of the principal bank that failed, the Indian Specie Bank of Bombay are appended

Prify-seven banks falled the authorised compiled of which was Rs 9 92,00 000 the subserified capital Rs 4 10,00,000 or 41 4 per cent.

4 the sathorised capital and the paid up to the subserified appital Rs 1,44,80,000 or 18 6 per cent of the substitution of the substitution of the substitution of the substitution.

(2) In Bombay - The Indian Specie Bank and Ahmedabad Banking Corporation (3) In the United Provinces—The Bank of Resember, 1818, seven bank falled.

(3) In the United Provinces—The Bank of Resember, 1818, seven bank falled.

(4) In Bombay - The Indian Specie Bank and Ahmedabad Banking Corporation (3) In the United Provinces—The Bank of Resember, 1818, seven bank falled.

In the Indian Year Book for 1915 a full crisis in Northern and Western India began account was given of the disastrous failures in September 1913 with the failure of the Poor Bedian banks which conumenced in 1918 per 8 Bank of India in the Punjab which went and were continued throughout the greater into liquidation on the 17th November, 1914 part of the following year Further the statis [Since then 65 Banks have failed 28 in the Funjab Steal goestion of all these banks was set, out 11 in Bombay 9 in the United Provinces Z in province were -

- (1) In the Punjab—The People a Bank of India Labore the Popular Bank Rawaipindi the Orient Bank of India Labore and the Pun

The following table summarises the available statistics relating to these banks ---

I'm thousands of Rupees 1

	1	CAPITAL				
Names of Banks	Author	Subs cribed	Paid up.	Dopo- site.	Date of liquidation,	
Puujab	T.			·	<del>`</del>	
People a Bank of India Lahore Popular Bank Bawalpindi Orient Bank of India Lahore Pinjab Co-operative Bank Amrit	35 00 30 00 25 00	20 00	125	18 65	17th Yov 1913 28th July 1914 4th Sept 1914	
1 miles co-op ractive Datie Timere	25 00	10 00	8 18	4 > 76	Sept 1914	
Bombar — Indian Specie Bank Credit Bank of India	2 00 00 1 00 00	1 30 00 50 00			4th March 1914 1st Nov 1913	
Kathiawar and Ahmedabad Bank ing Corporation	1 00 00	70 73	~ t.	!	23rd Dec 1913	
United Provinces— Bank of Upper India M. crut	10 00	10 00	10 00	1 83 5	October 1914,	

Deposits in the Punjab amounted to Rs 200 a statement of the progress of the liquidation lakes of which the Propies Bank stone second; which showed the following results—

d for Rs 128 lakes the Punjab to operative Bank Rs 46 lakes the Amritsar and Lahor 19th June 19th a call of Rs 50 nor share was Banksabout Hs 28 lakhaeach and the Popular Bank of Rawalpindi nearly Rs. 19 lakha the United Provinces the total amount of de posits in the banks as far as ava lable was Re-185 lakhs of which the Bank of Upper India is credited with Rs 183 lakhs For the banks in Bombas Madras Bangalore and Baluchis banka tan the total deposits are not avallable

The Bank of Upper India has been reconstruet ed

First dividends to creditors have been paid by the under mentioned Banks as follows Indian Specie Bank 4 48 per Re 1 Bombay Banking Largo poration Crodit Bank

People s Bank The Official Liquidators published their accounts up to aprember 10th 1915 These showed that petty creditors in respect of accurity deposits were given 11 for the European market annas Altogether creditors with claims aggre gating about 11 lakhs were discharged. The Shares sold up to date realisations for the year amounted to Ha 8 65 (MO) which the official liquidators consider satis factory having regard to the general depression of trade and the consequent difficulties of

In pursuance of the Court's order dated 19th June 19th a call of Rs 50 per share was made on the shareholders and payments of calls up to 7th September amount to Rs 20 70 784 8-0. In many cases arrangement has been made for payment of calls by installments on condition that if the liquidation is on the point of completion all unpaid installments on the point of completion all unpaid installments must be half up at one month a notice. ments must be paid up at one month a notice It is estimated that further recoveries on account of calls will amount to about Rs 20 lakes

The amount of outstanding recovered up to date is about Rs 14 91,500. It is estimated that further secoveres under this head will amount to about Rs 8 72 000.

Praiss sold up to date have realised about Rs 5 44 000. There are still many p aris on hand for which purchasers have not been found. These in the present depressed condition of the Pearl Market are estimated to produce about Rs 13 00 000 but it must be understood that this estimate is advanced with much diffidence below Rs 100 and creditors in respect of the as the market for the prais now remaining is provident fund were paid off at the rate of 10 caternely weak. The peaks sold hitherto annas in full satisfaction while the creditors have chiefly been suitable for the local and not

Shares and up to date have realised Rs. 14,17 263 of which Rs 6 30 000 for principal and Rs 70 000 for interest, Rs 7 00 000 in all have been retained by Raja Bahadur Shival Motilalin payment of his secured claim. Though or trade and the consequent difficulties of a southern payment of his second claim. Though the alieston of the property of the liquidation of the consider offers for purchase of any of our bolding I have declined to throw any shares on the matter, and I have only so far sold such shares as probaters have appeared for at the price which I considered held a meeting of the creditors and submitted in the offermmentances to be a fair market price

The total number of creditors whose claims directors and auditors for further dividend have been admitted in whole or in partia 18 442 after payment of the balance of preferential and the total amount of claims admitted is and small claims and the costs of the liquidation have been admitted in whole or in partia 18 442; and the tetal amount of claims admitted is Rs 1,55,59 410-14-3. Of the total number of smaller is, the claims of 8,121 did not in any case exceed Rs 10 and the aggregate amount of their admitted claims was only Rs. 38,119-12-3 in these circumstances the Hos. Mr Justice Maclood, by his order dated 18th July 1915 made after due notice had been store directly a whole and bren given directed that all creditors whose ad mitted daims do not exceed Rs 10 be paid in full. This will considerably lighten the burden and expense of the liquidation. In pursuance of that order Rs 2 65° 18-1 have been paid to such creditors. In the cases 34 creditors their admitted dailing a mountain to R 2 4 25° 18-1 admitted claims amounting to Rs 8 588 5 3 have b en held to be preferent a and of these 13 have b en paid in full, the amount so paid amounting to Bx 4 369-11-8

On the 10th September 1914 suit No 966 of 1914 was filed in the High Court against the directors of the bank to recover the sum of Rs 10664,694-06 being the aggregate of the losses sustained by the Company by reason of the mislessance neglect of duty and breach of trust of defendants 1 to 7 and the late Chooni lai Dharamdas Saraiva and Lathamsey Napoc respectively as per particulars given and also in the alter ative to recover the sum of Rs in the alter ative to recover the sum of Rs 25,33 077 being the aggregate amount of the dividends and bonus for the vears 1609 1610 1911 1912 and 1913 wrongfully paid out of capital as per particulars given. The issues in this auti-were stilled in July last and the cases to come on for hearing after the October agents.

On the 23rd October 1914 suit No 1217 of 1914 was filed against the auditors of the bank to recover the sum of Ra 23.53.077 with in terest being th aggregate amount of the dividends and bonus wrongfully paid out of capital through neglect of duty by the defendants in not examining the accounts and reporting and correctly certifying the result of such examina-tion. This suit is now on the daily board

The porition of the liquidation independently of anything which may be recovered in the suits against the directors and auditors i at present

Water- to Dark at Dark	Ks	A	р
Balance in Bank of Bom bay on 7-9-15	48 18 950	12	0
Balance in hand Balance of cash with	17 45K	4	1
Shivial Metilal	<b>2,</b> of 000	0	ū
Estimated value of pearls	19 00 000	0	0
Estimated value of shares Estimated value of fur	14,97 930	0	0
ther recovery of calls	20 00 000	0	0
very of outstandings	8 72 000	0	0
R:	1 04 60 339	1	U

A dividend at the rate of four annua in the attractors at the rate of four almain re-rigre has been declared This will absorb about Ra. 35,71,425, leaving a further estimated, missage of about Bs 68,12,000 independently of any amount that may be recovered from the

On December 13 there came on for hearing before the Hon Mr Justice Macleod in the Bombay High Court the claim of the liquidator against the Directors for Rs 1 77 04,202 in respect of the acts of ponfessance and mis respect or the acts of nontessance and mis feasance referred to in the Liquidator sceport. It was stated by Counsel that a compromise had been arrived at with all the defendants except the fourth defendant, H. H. the Thakon Saheb of Morvi, and that consent terms would be submitted to the court later The ceedings against the Thakore Saheb of Morvi are continuing

Joint-stock enterprise in India in the last partly to war conditions and partly to the stringent measures of the new Indian Companies Act which came into force in April 1914 R. turns compiled in the DEFARMENT OF STATISTICS show that only 107 Companies were registered with an authorised capital of Rs 3 94 laklus with an authorised capital of Rs 394 laking against 34. Companies and Rs 66 54 laking 1919-14 and 254 Companies and Rs 12 19 laking 1912 13 Five Companies were registered with an authorised capital of Rs 20 laking and above seven with 10 laking and under Rs 20 laking and eighteen Companies from Rs 4 laking to the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Albert Branch and Companies from the Companies f tries as shown below .

Joint-stock Companies rematered in 1 114 15.

	Authori and cap- ltal	Percen 18gi
Banking toan and	Rs (lakhs)	11
Railways	7U	18
Trading	1.10	28
Cotton mills	47	12
Jute and other mills	14	4
Tea planting	18	. 4
Rubber planting	, 8	2
Coal mining	27	, , 7
Land and building	, <b>‡</b> 1	
Brewerics	18	1
Sugar factories	10	3
Others	11	3
Total	3,94	100

# Agriculture.

fond and moisture in the soil so the character food and moisture in the worl so the constructor of the agriculture of a country depends largely on its soil and climate. It is true that geographical situation the character of the people and other considerations have their influence which is not inconsiderable, but the limitations im no incommensors, but see minimizations in posed by the nature of the soil and above all by the climate tend to the production of a cer tain class of agriculture under a certain given set of conditions.

The climate of Trilia, while varying to some extent in degree, in most respects is remark ably similar in character throughout the coun The main factors in common are the monsoon the dry winter and early summer months, and the intense heat from March till These have the effect of dividing the year into two agricultural seasons the Khars' or Monsoon and the Rabs or Winter Season each bearing its own distinctive crops From early June till October abundant rains fall over the greater part of the continent while the winter months are generally dry although North-Wes tern India benefits from showers in December and January The distribution of the ramfall throughout the year which is of considerable importance to agriculture is none too favourimportance to agreement is none to tavour-able, but is not quite so had as is often represent-ed. The rainfall is greatest at what would otherwise be the hottest time of the year, ru-mid-summer and when it is most needed. It should be remembered that in a hot country intermittent showers are practically valueless as evaporation is very rapid. The distribution of rainfall such as is common in England for example, would be of little use to Indian

Soil.-For the purpose of soil classification Soil.—For the purpose of soil classification indis may be conveniently divided into two main areas in (1) The Indo-Gangetic plants, 22 Central and Southern Indis. The physical features of these two divisions are essentially different. The Indo Gangetic plains (including the Punjab, Sind, the United Provinces, Bengal, Bihar and Assam) form large level stretches of alluvium of great depth. The top soil verses, in terror terror areas to clear the correct content of the stretches of alluvium of great depth. The top soil varies in texture from sand to clay the great er part being a light toam porous in texture easily worked and naturally lertile. The great depth of the alluvium tends to keep down the soil temperature. Central and Southern India on the other hand consist of hills and valleys. The higher uplands are too bot and too near the rook to be suits has for central time which he the rock to be suitable for agriculture which is mainly practised in the valleys where the soil is deeper and cooler and moisture more pientiful. The main difference between the soils of the two tracts is in texture and while the greater part of the land in Northern India is porous and easily cultivated, and moist near to the aurisce large stretches in Southern and Crn

As crops depend on the existence of plant of and moisture in the soil so the character the spriculture of a country depends largely lits soil and climate. It is true that geograpical situation the character of the people and her considerations have their influence which not inconsiderable, but the limitations impact by the nature of the soil and above all the climate tend to the production of a cer which has been taken in hand by Government. and which has already proved successful in many provinces will undoubtedly lead to an increase in Agricultural capital.

Equipment.—For power the ryat depends chiefly on cattle which, as a rule, are light and active but possess little hauling power The necessary title for crops is brought about by frequency of ploughings the result being that the soil is seldom tilled as it should be. This is not due in any way to want of knowledge on is not due in any way to want of knowledge on the part of the people but through want of pro-per equipment. The indian Agricultarist, as a rule possesses an intimate knowledge of the essentials of his own business and falls through lack of ways and means

implements are made of wood although ploughs are usually tipped with iron points and plougus are usually tipped with iron points said there is a great similarity in their shape and ge-neral design. The levelling beam is used through-out the greater part of the country in preference to the harrow and roller and throughout Nor-thern India the plough and the levelling beam are the only implements possessed by the ordi nary cultivator

In the heavier soils of the Deccan trap a cul treating implement consisting of a single blade, resembling in shape a Dutch hee, is much used Seed drills and drill hoes are bruse in parts of Bombay and Madras but throughout the greater part of the country the seed is either broadcast. ed or ploughed in Hand implements consist of various axes of hose the best known of which are kodal or spade with a blade set at an angle towards the labourer who does not use his fact in digging, and the kharps or small hand hoe. of harvesting machinery there is none grain is separated either by treading out with oxen or beating out by hand and winnowing by the agency of the wind

Cultivation —Cultivation at its best is distinctly good but in the greater part of the country it has plenty of room for improvement. country it has plenty of room for improvement.
As in any other country success in agriculture
varies greatly with the character of the people,
depending largely as it does on thrift and
industry. In most places considering the
large population cultivation is none too good.
Agriculture suffers through lack of organias. tion and equipment. Owing to the necessity of protection against thieves in most parts of protection against thieves in the people live in villages, many of them at considerable distances from their land. Again onsiderable distances from their land. Again that it all distances from their land. Again the Deccan trap sticky in the rains, hard and crumbly in the dry weather and holding its monisture at lower lavels.

Agricultural Capital and Equipment.—

Agricultural Capital and Equipment.—

India is a country of small boldings and proaches by harrowings with the leveling a reaction of the people cultivate patches more thorough cultivation than the Likewy a varying in size from once to edget score. Large finar seed bed being accountry owing to the holdings are practically maknown, and are mainly dryness of the growing seases. Hauters is

generally applied to Rierif crops. Seeding is thus does not exist. This is partially if not utiliser done broadcast or by drilling behind a settlerly made up for by the large numbers wooden glough or drill. Thimmag and speciary required for tillage and the amount of cows and is not hearify so well done as it might be, and intercutivation is generally too superficial is very source and a greater part of the dung Rieriesting is done by sickle where the crops are ent whole, and there is little watch involved the current of the train from crops used up to the same purpose and the net return of organic state and the training life of the training life of the training life of the training of the same purpose and the net return of organic ried out thoroughly would be quite satisfactory but it is doubtful if this could be done with the number of cattle at his disposal.

irrigation is necessary over the greater part of the country owing to insufficient rain full and the vagaries of the monsoon Canal irrigation has been greatly extended over the Penjab Sind United Provinces and Madras through Government canals which in addition capung to companies and whom in individual to securing the crops over existing cultivated hand have converted large desert tracts into fertile areas. The Punjab and parts of the United Provinces are naturally well suited to canal ed Provinces are naturally well suited to canal shows that rice is the most extensively grown irrigation owing to the frequency of their rivers.

The water is generally taken off at a point a little distance from where the rivers leave the hills and is conducted to the arid plains represented by the man canal splits up into diverging beauches, which again subdivide up into diverging beauches, which again subdivide up into diverging beauches, which again subdivide up into distributaries from which the village channels receive their supplies. Water rates are levied of and climate, and the people possess an entire than bearing a part of the loss in case of failure than bearing a part of the loss in case of failure which is supplied by what is termed from its proper supplies to the land is supplied by what is termed from its proper supplies. The bester qualities are sown in seed beds and transplanted in the surface of the land is supplied by what is termed from its proper supplies to the land is supplied by what is termed from its proper supplies to the land is supplied by what is termed from its proper supplies to the land is supplied by what is termed from its proper supplies. The bester qualities are sown in seed beds and transplanted in the supplies the supplied by the supplies the supplies to the supplint to the supplies to the supplies to the supplies to the supplie flow frigation, i.e., the land is directly com manded by the canal water but a great deal has to be lifted from one to three feet the canal remains in such cases below the level of the land. Rates for lift irrigation are of course lower than those for flow

Irrigation canals are generally classed into [1] percential and (2) inundation canals. Percential canals, which give supplies in all seasons seasons, the vertex beadworks near the hills, bear that beadworks near the hills, bear commending a great range of country. Farther from the hills, owing to the very gradual stope of the land and the lowness of the rivers fa the cold weather percential irrigation is difficult and function canals are resorted to These canals only give irrigation when the rivers are high. As a rule is Northern India they begin to flow when the rivers rise owing to the mediting of the anow on the hills in May and dry up in September. and dry up in September

cepta nous a new loss to over inty set That; attaches have greatly increased in recent years languly through Government advances for their construction. The resurring cost of this form of integation has, however, greatly increased ewing to the high price of draught cattle and the increasing cost of their maintenance

Tank irrigation is common in Central and floatisem india large quantities of rain safer are stovet in lakes (or tanks) and distributed during the drier seasons of the year the ayear of distribution is the same as that by small.

same purpose and the net return of organic matter to the soil is thus insignificant. In some parts cakes of oil seed are used as manures some parts cakes of oil seed are used as manures for winable crops like tea and sugarcane but in the greater of the country the only manure applied is the balance of farm yard manure available after fuel supplies have been satisfied. Farm yard manure is particularly effective and its value is thoroughly appreciated but the people have much to learn in the way of storage of bulky manures and the conservation of nefoe

Rice —A reference to the crop statistics shows that rive is the most extensively grown crop in India, although it preponderates in the lity and in suitability for various conditions of soil and climate, and the people possess an intimate acquaintance with those grown in their own localities. The better qualities are sown in seed beds and transplanted in the moneon Broadcasted rice is grown generally in lowlying areas and is sown before the mon-sion as it must make a good start before the floods arrive. Deep water rices grow quickly and to a great height and are generally able to keep pace with the rise in water level For transplanted rice the soil is generally

For transplanted rice the soil is generally prepared after the arrival of the monsoon and

ind dry up in September

krigation from Wells.—About onegranter of the total irrigation of the country
s got from lifting water from wells ranging in
the spate from a few feet to over fifty feet. Thair
the material of the total creation of the country
two-thirds of the total area, and probably
there are not the property of the total creation in India.

The material of the total outcome in India. three quarters of the total statum in industrial to the Species Triticium Vulgare Indian wheats are generally white, red and amber coloured and are mostly classed as soft from a commercial point of view. The grains are generally plump and well filled but the samples are spoiled pump and well lifed but the samples are spouled through mixtures of various qualities. Indian wheat is generally adultarated to some extent with bariev and largely with dirt from the threshing floor and although there is a good demand in England and the Continent for the surplus produce, prices compare unfavorably with those obtained for Canadian and Anticathe same and the control of animals for singlet-lien produce. The crop is generally grown the light, the after a summer fallow and, except in irrigated course of here yeard menture generally tracts, depends largely on the conservation of addition in other constraint from the previous mossoca.

\* Pigures for Minor Areas are for 1912 13

# AGRICULTURAL PRODUCE.

Abution for 1918-14 The crop- prefiminary) represent thousands	Total Area after
nd their territorial dist The figures (which are	Sugar Cotton J
The following table shows the area under the patnolpal crops, in British India and their territorial durishbution for 1942-14. The corporate are in always greater than the area of cultivated land, owing to doubte cropping. The figures (which are preliminary) represent thousands of some	Rice   Wheat Backey (Chikity Grains Road Riseeds Sugar Cotton Jule
The following table shows ped area is always greater than the of seres	Province

				Puls t	Pulses		-doco	action of	- 4no	dres.	deducting Area cropped more than once
_	_	_					}	-			
Bragal	16 735	7	z	1 602	21 575	1 805	123	58	9 7 1 8	50	9
Bilber and Orlege	_						<u></u>		3	3	A07 #2
AFR	47.5			10	4,880	182	8	35	101	6410	y out
United Provinces	0,140	6,877	4 377	16 964	32 838	784	1 389	1 548		88 749	880
Punjab	96	8 473	910	887.6	189'61	1179	411	1.826		<b>3</b>	180
B W Frontier Province	#	1,031	291	1 040	2,406	156	32	8		2,888	0887
Barras	10,831	*		1 610	11 985	1,482	9	906		14 674	14.148
Octand Prothess and Berst	4 986	2,535		10 373	17,892	2 848	ន	4892		218	22 479
Medres	10,678	ũ	\$10	18 735	29 410	771 8	162	2,697		38	34 181
Benefies and Stud	2,760	1840	20	17 818	21 876	1 876	5	183		99,130	38138
* Minor Areas	<b>\$</b> 2	ដ	2	222	2003	34		28		543	8993
* Total	90.300	80 470	5,844	76 \$17	996 391	12,675	2,432	25 25	2,817	212,556	194 060
	 						•				

Rains in January and February are generally bunchical but an excess of rainfall in these smalls assuly produces rust with a distinction of the yield. On irrigated land 2 to 4 waterings are generally given The crop is generally harvested in March and April and the threshing harvested in March and April and the threating and whanowing go on up till the end of May In good years the surplus crop is bought up at once by exporters and no time is lost in putting it on the European market as other respites are at that time of year scarce. In years of numbes the local price is generally sufficiently high to restrict exports

The Millets.—These constitute one of the most important group of crops in the country suplying food for the poorer classes and fodder for the cattle. The varieties vary greatly in quality height and suitability to various climatio and soil conditions. Perhaps the two best known varieties are Jowar (Sorghum veilgare) tail growing with a large open head, and Bajra with a close rat-tail head and this storm. Generally speaking the jowars require better land thus the bajras and the distribution of the two crops follows the quality of the tion of the two crops follows the quality of the soil. Notither for jowar nor bajrs is manure applied and cultivation is not so thorough as for applied and cuttivation is not so therough as for wheat, the main objective being to produce a fine seed bed. As the crop is generally sown is the beginning of the monsoon it requires to be thoroughly weeded. It is often grown mixed with the summer pulses and other crops in which case this seedings are resorted to The subsidiary crops are harvested as they ripes either before the millet is harvested or afterwards. The produce is consumed in the

Primes are commonly grown throughout India and the grain forms one of the chies foods of the people Most kinds do well but foods of the people Most kinds do well but are satisfect to fallure or shortage of yield owing an amples to mainte or assurage of your owing to a variety of circumstances among which rain at the time of flowering appears to be one of the most important. They are therefore more suitable to grow as mixed crops especially with cereals, and are generally grown as such, Being deep rooted and practically independent of a Hittogen supply in the soil they withstand droment and form a cond alternation in a cere drought and form a good atternation m a cereal rotation. The chief crops under this heading. rotation. The chief crops under this heading, are gram, mash, ming and unoth, gram forming, the main winter pulse crop while the others are grown in the summer. The pulses grow best on land which has had a good deep cultivation. A fine seed bed is not necessary. For gram especially the soil should be loose and will wrated. Indian pulses are not largely expected although they are need to some extent in Europe as food for dairy come. in Burope as food for dairy cows

Cotton is one of the chief exports from India and the crop is widely grown in the drier parts of the country. The lint from Indian cotton is generally speaking short and course in fibre and imsulted for English Northern India it is sown broadcast (often mixed with other crops) and from the date of sowing till the time of picking is practically left to itself The average yield, which does not amount to more than 400 lbs. per acre of seed cotton could doubtless be greatly increased by better cultivation

Sugareams.—Although India is not naturally suited for sugareame growing, some \$\frac{3}{2}\text{millions} of acres are annually sown The crop is mostly grown in the submontane tracts of Northern India. The common varieties are thin and hard yielding a low percentage of juice of fair quality In India white sogar is accessed but the grower who surely holls down not made by the grower who samply bolls down the juice and does not remove the molasses. The product called gur or gul is generally sold and consumed as such, although in some parts a certain amount of sugar making is carried on The profits however are small owing to the cheapness of imported sugar and there appears to be some danger to the crop if the appears to be some danger to the crop it the present taste for gur were to die out. The question has been taken up by Government and a cane breeding station has been recently opened near Coimbatore in Madras with the object of raising seedling cames and otherwise improving the supply of cane sets. A number of sugar factories of a modern type have been set up within recent years in Bibar and the United Provinces. The chief difficulty seems to be the obtaining of a sufficiently large supply of cases to offset the heavy capital charges of the undertakings

Oliscods.—The crops classified under this beading are chiefly resumum, linscod and the cruciferous oliscods (rape mustard etc.). Although oilseeds are subject to great fluctua tion in price and the crops themselves are an immense area

Lineaced requires a deep and moist soil and is thus grown chiefly in Bergal Bihar the Urited Provinces and the Central Provinces. The crop is grown for seed and not far fibre and the common varieties are of a most characteristic behild a grown for the control of the control o much shorter habit of growth than those of Europe The yield varies greatly from practically nothing up to 500 or 600 its of seed per acre. The seed is mainly exported whole but a certain amount of oil pressing is done in the constry

Sessmen (Or Gingelly) is grown mostly in Peninsular India as an autumn or winter crop The seed is mostly exported

The Cruciferous Oilseeds form an important group of crops in Northern India where they grow freely and attain a fair state of development. They are one of the most useful crops in the rotation. They occupy the Catter is one of the chief exports from larding and the crop is widely grown in the drief parts of the country The lint dense growth leave the soil clean and in good them Indian cotton is generally speaking short and condition after their removal. A number of said course in fibre and manufed for English mills. Japan and the Continent are the chief beyons. The crop is grown during the summer of varieties are grown differing from each other manufactures and requires a deep moist soil and leght mainful for its proper growth. Eakin the said country of the crop is generally sown agreed in laptacies. In parts of Contral and locations in Indian large and size and country of the crop is grown at manufactures in the country of the crop is subject to the attack of spils (green 3) at the country of flowering and sometimes suffers country the crop is subject to the attack of spils (green 3) at the country of flowering and sometimes suffers country the crop is subject to the attack of spils (green 3) at the country of flowering and sometimes suffers country the crop is subject to the attack of spils (green 3) at the country of flowering and sometimes suffers country the crop is subject to the attack of spils (green 3) at the country of flowering and sometimes suffers country of the countr

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,	1906-7	190, 5	1908 9	1900 10	1810 11	1011 12	1912.18	
	(LTV)	Acres	ALFOS	Acres.	Acres	Acres	A ores.	
Met Area by professional surve) Area under forces	583 739 245 81 748 198	619 456 133 83 425 168	623 135 293 82 489 268	81 189 511	618 581 099 80 618 076		618 927 145 82,400,281	
Not arailable for cultivation Cuttrade vaste other than fallow	137 164 249	163 624 625 118 288 334	157 636 634 113 066 521	157 627 145 114 665,202	149 994 347 115 096 768	149 905 179	146 386 588 115 024,887	
grafow land Med area sown with crops. Area trigated	30 075 421 214 025 596 36 651 779	210 863 f11 38 919 673	50 159 056 218 030 911 42 486 724	45 435 412 222 911 547 41 581 436	46 948 606 223 064 601 40 895 474	64 982,524 215 981 683 40 679 142	48 790 388 224 165 602 45 589,074	Agricu
Area under Food grauns		1						45747
Rice Wheat Barley	73 541 138 25 187 418 7 700 109	75 980 682 18 424 101 7 629 550	7., 800 536 21 198 764 8 002 083	78 770 642 22 760 918 8,104 753	78 524,891 24 897 699 7 840 522	76 696 887 25 025,246 8 438 503	78 752,493 23 861 185 7 420 335	ai su
Jawsi Bajis Ragi	20 781 623 15 033 738 3 567 712	21 963 751 15 133,220 4,539 472	24 780 144 16 007 989 4 464 309	21 801 934 16 303 400 4 545 355	21 184 164 15 540,225 4 288 927	18 386 332 18 092 938 4,296,207	20 967 730 16,268,501 4,456,537	tusuc:
Neire Grem Other grains and pule	6 171 716 1 3 411 948 23 771 837	6,296 376 6 816 816 29 586 726	6 784 284 11,264 479 31 534,019	8 857 925 13 153 400 31,396 882	6 811 627 15 946,210 28 069 948	5 591 840 14 128 881 29 507,101	6 816 089 12 483,948 30,906,560	5
Total bood grains	105 117,216	186 369 792	196 837,237	203 664 289	204 103 418	195 097 484	201,872,678	
nes under other food-crops (including gridess orchards, spices &c)	7 274 916	7 493 186	7 198 824	7 446 923	7 467 684	7 582 432	8,188 409	
áres undar Bugar Godbro Tos	2,623,878 94 050 505,417	2,876 965 99 511 518 437	2 408 212 97 288 530,487	2 442,033 94 455 525 729	2 640.541 92,874 685,703	9,566,770 94,876 648,566	2 712 085 91 913 557,556	271
!				1				

is very subject to injury from rain and great; care has to be taken in the drying. The produce is largely exported whole, but there is a con-mittenible amount of local call-pressing—the cake being in densard for feeding purposes

Juda.—Two varieties of the plant are cultivaried as a crop Capsularia and Olitorius. Jude growing is confined almost cuttrely to Bestern Bengal, in the Ganga-Brahmaputra Daita. The crop requires a rich moist soil Owing to river inundation this part of India receives a considerable alluvial deposit every receives a considerance analysis deposit every year and the land is thus able to sustain this exhausting crop without manure. The crop is rather delicate when young, but once estabis rather delicate when young, but once established requires no attention, and grows to a great height (10 to 11 feet). Before ripening the crop is cut and retted in water After about three weeks submersion the fibre is removed by washing and beating. At the present high range of prices jute may be considered to be the best paving crop in India.

Tehecoe is grown here and there all over the country chiefly however in Bengal, Bihar, Bombay, Madras and Burma. Of two varie-ties cultivated Nicotzana Tabacum is by far the most common Maximum crops are obtained on deep and most allevium soils and a high stan dard of cultivation including liberal manuring is necessary. The crop is only suited to amall holdings where labour is plentilm as the atten holdings where labour is pientiful as the atten-tion mechanisty for its proper cultivation is very great. The seed is germinated in seed beds and the young plants are transplanted when a few lashes high, great care being taken to abside them from the sma. The crop is very sarefully weeded and hood. It is topped after stanning a height of, say 2 ft., and all suckers are removed. The crop ripons from February cavaries and is cut just before the leaves are bettern brittle. By varying the degree of are removed. The crop ripens from February recent years a considerable trade in times commands and is cut just before the leaves are better has spring up in Gujart (Bonba) bettern brittle. By varying the degree of Presidency) While pure gives and milk can of teshecor are obtained A black tobsecto is groducta can scarcely be bought unadulter required for Heora smoking and this is the lated

port common product but a certain amount of reliew leaf is grown for clear making.

Live-stock consist mainly of cattle buffaloes and goals, horses not being used for agricultural purposes. Sheep are of secondary Importance.

For draught purposes cattle are in more general use than buffaloes especially in the drier parts of the country but buffaloes ar-very largely used in the low lying rice tracts For dairying bullalose are perhaps more pro-stable than cowe so they give richer milk and more of it but they require more feeding.
The poorer people depend largely on the milk
of gosts of which there are an enormous number throughout India Cattle breeding is carried on mamly is the non-cultivated tracts in Central ca mamly in the non-curivated tracts in tentral and Southern India, Southern Punjab and Rajputana where distinct breeds with definite characters have been preserved The best known draught breeds are Hansi, Nellore Amritmelad, Gujrat, Maiv, and the finest pilk cows are the Sahiwai (Punjab) Gl; (Ka this war) and Sund. Owing however to the encroachment of cultivation on the grating areas well bred cattle are becoming scarce and some of the breeds are threatened with and some of the breds are threatened with extinction. Efforts to improve the quality of the cattle in the non breeding districts by the use of selected bulls have hitherto been frustrated by the promiscuous breeding which

Dairying, .- Though little noticed durying forms a very large indigenous industry through-out India. The best known products are native butter (ghee) and choose (dahl). During

# AGRICULTURAL PROGRESS

they now exist may be said to be a creation of the last ten years There have for a good many years post been experimental farms under offi years peet seen experimental jarus unto r on cal control in various parts of India, but they were in the past to a large extract in the hands of annateurs, and the work of the Agricultural Departments, with which all the major provin cas were provided by about 1884, was in the main; our lines to the simplification of revenue settlement procedure and the improvement of the land records system. In 1901 the appointment of an inspector General of Agriculture saws the first time first time for the first time an expert head, and placed the Government of India in a position to en-Targe the scope of their own operations and to en-essimate the work being done on independent Since in various provinces. At that time the expressed, was the establishment of an experi-shed satisfact to the Georgisters of India, assists from in each large tract of country in consisted of an Agricultural Chemits and a which the agricultural conditions are approxi-plessory of Agriculture were employed only assumptions small demonstration forms.

The Agricultural Departments in India as in Madras Bombus and the United Provinces by now exist may be said to be a creation of and the Economic Botanist in Madras was the only provincial representative of the more specialised type of appointments. Within the next few years a number of new appointments were made so that by March 1905 there were attogether 20 sanctions d agricultural posts of these seven were imperial including a number of specialist appointments attached to the Agri outtural Research Institute and College, the establishment of which at Pusa in Bengal was sanctioned in 1908 A great impetus was given satisagement in the Agricultural Depart to the development of the Agricultural Depart ments by the decision of the Government of India in 1905 to set apart a sum of 20 lakks (£123,000) a year for the development of agri lekbe cultural experiment, research, demonstration and instruction. Their ultimate aim, as then expressed, was the cetablishment of an experi

		1 906 1	1907 8	1906 9	1909 10	101011	1911 12	1912 13
		Acres	Actres	4cre4	Acres	Acres.	Acres	Аате
Ares mader Offseeds— Lives East with (H) Easte and Witterd Other Otherds	-	2 514,884 8,909 128 4,831 554 9,310 599	1,401,220 4,247,726 8,397,466 9,499,570	1 981,826 4,832 568 8 887 122 4 004 092	2,116,281 4,740,092 4,083,590 3,675,094	2 512 082 4,211.829 3 896 746 8 911 623	8 763 292 4 174 841 4 224 736 4,832,566	3,185,067 4,164,045 8,555,800 4,091,898
Total Oilsculy		13 965,865	12,485 978	14 105 598	14 625 057	14 584,230	16 494,865	14 935,780
Cooten Cooten Cooten Jule Cooten Cooten Land Bross Ladigo Ladigo Lopium Lobacco Fodder c ops		19 771 266 3 523,558 692 484 448 597 614,879 1 000 210	13 909 269 3 942 975 746 996 405 905 538 642 974 458 4 908 324	12 958,974 2 935,463 722 718 226 854 416 318 958 712	13 173 188 2 756 620 824 600 205,706 374,208 1,018 352 4,748 899	14 447 690 2 828 669 7 69 664 282 757 983 335 1 067 688 4 881 742	14 568 189 3 030 827 689 808 274 925 220 104 998 943 4 077 924	14 188 487 8 323,951 805 911 227 046 187,814 964,726 5 770,466
Estimated yield* of — Elec (Sound) Elec (Sound) Foot of the foot o	card tons tons tons tons	427 748 800 9 491 700 17 777 032 241 408 510 9 204 400 9 206 400 1 063 100 541,000 541,000 66 700 2 206 300	370 ±11,300 30 042,447 244 689 973 8 782 401 9 817,800 683,500 683,500 883,600 286,700 25,600 2,046,900	390 979 900 27 648 867 247 864 750 4,300 150 8,410 800 8,97 500 8,97 500 4,48 300 4,48 300 1,672,900	557 1386,000 84 683,600 84 683,600 84 883,600 7 286,000 7 286,000 1 2 18 400 560,800 2 39 800 2 187 100	267,938,000 263,945,000 263,945,000 7,938,000 1,238,900 511,900 511,900 46,000 46,000 8,217,900	521 992 000 1 913,600 266,823 436 3 926,000 8,284,700 6,1290 1,271 000 1,271 000 8,140 842,200 848,700 8,690 400	520 023,000 54,69 700 54,69 700 52,69 700 52,50 700 51,20,400 631,400 87,600 87,600

The statistics of the production of tea are for calendar years—those for coffee were for calendar years before 1908-9.
# Besure of production discussive sed.

creation of an agricultural college teaching up | to a three years course in each of the larger provinces and the provision of an expert staff in connection with these colleges for purposes of research as well as education The eventual cost. it was recognised, would largely exceed 20 lakhs a year. The Pusa Research Institute and Col lege alone has cost nearly £150 000 including lege alone has cost nearly £150 000 incircung equipment A part of the cost was met from a sum of £30 000 placed at Lord Curron s disposal by Mr Phipps an American testor to India. This example of munificance has recently been followed by Sir Passoon J David, who placed the sum of £53 300 at the disposal of the Government of Bombay for the establish ment of vernscular agricultural schools and the improvement of agricultural methods, in commemoration of the visit of Their Imperial Malesties to India

# Record of Progress

At the beginning of 1912 there were over 40 posts in the Indian Agricultural Service be sides that of Inspector General which was abolished at the end of the year 1911 12 the raps: advance of the provincial departments having rendered its continuance unnecessary. The officers serving directly under the Government of India medided the Director of the Pass Institute who was also Principal of the Agricultural College a cotton specialist two Agricultural College a corton specialist two agricultural chemists and an economic botarist some of these were supernumerary officers undergoing training The provincial agricultural departments vary in strength Gunerally speaking each of the larger provinces has at least a Deputy-Director of Agricultura (most provinces have two), an Agricultural Chumist, and an Acogonic Botanist. In several provinces the principalship of the Agricultural College is a generate annotatine and an author of the Agricultural College is a generate annotatine and an author of the Agricultural College is a generate annotatine and a survival. College is a separate appointment and among the remaining officers are a fibre expert in East ern Bengal and Assam and a scientific offi eer for pleating industries in Southern India in Madrus The Government of Madras have also a mycologist and an entomologist of their own The posts so far re ferred to have hitherto necessarily been filled almost exclusively by the appointment of train ed appointment from the United Kingdom. There cu specianize from the United Kingdom. The re-are Also in the various provinces a considerable number of locally appointed Assistant Profes-sors (in the Agricultural Colleges), Assistant Agriculturists and Entomologists Agricultural Inspectors Superintendents of Farms etc and subordinate officers It is an essential part of the subeme adopted that facilities for the best avereithers (eaching about the rest part of the some adopted that includes nor the best agricultural righting shall be made available in India in order that the country may become self-supporting, so far as possible in regard to the scientific development of agri contrast methods on lines suited to local conditions Provincial agricultural colleges which are also revered stations have within the last few years been established in Madras Bombay, Bengal, the United Provinces, the Punjab and the Central Provinces. The Central College at Pass is intended to provide for more advanced in the spread of the local improved variety training, and gives also short practical courses called Harmanay in the Transvilly District and a subjects not at present taught in the pro-

vincial colleges. The Provincial Directors of Agriculture have so far been selected from the ranks of the Indian Civil Service and they still in some provinces have other functions healdes the supervision of the Agricultural Department but in all the larger provinces except the United Provinces the appointment of Director of Agri-culture has since 1905 been separated from that of Director of Land Records

# Machinery

The rapid extension in India in recent years of the use of machinery in connection with agriculture and irrigation has created a de mand for expert assistance to meet which Agri cultural Engineers have since the end of the period under review been appointed in Bombay and the United Provinces to salvise cultivator and the officer provinces to savies culti-mor-as to engines, pumps threshing machiners etc. An important advance in the direction of bringing the provincial agricultural departments more closely into touch with one another was made in 1905 by the meation of the Board of Agriculture The Board, which includes the Imperial and provincial experts meets annually and agricultural questions generally and makes recommendations which are submitted to the Covernment of India for consideration

# Work of the Departments

The work of the Agricultural Department has two main espects. On the one hand, by experiment and remarch improved methods or crops are developed or the means of combating a post are worked out on the other hand, ager tained improvements must be demonstrated tenical improving must be demonstrated and introduced as far as possible into the practice of the Indian cultivator. There is an essential difference between agricultural department to in the Last and in the West in that whereas the latter have arisen to meet the apontaneous demands of the cultivators of the hold the former are entirely the creation of a government anxious to give all the assistance it can to its agricultural subjects. The demand for improved agriculture has not in India except in special cases come from the cultiva-tor and it is necessary for the Department to put forth every effort first to ascertain the needs of the cultivators and then to demonstrate how they can most effectively be met. It is only a few years since work on modern lines was com menced by the reorgania d agricultural depart ments and, in the first place a great deal or apade work had to be performed.

# Cotton

Cotton from the first received much the attention of the new departments. Very striking results have siready been achieved, and more particularly with Cambodia and other excite varieties. The second line of improvement is the separation and selection of indigenous varieties. In Madras the afforts of the Agricultural Department have resulted

ARRA	CITI.TIVATED	and	UNCULTIVATED	to	1912 1.4	łn	Acres.	

	1	and Caccuit		<del></del>	1	
	Area	_	DEDUCT		NE	r Area
Administrations.	according to Survey	Feudatory and Tributary States	Area for which no Returns exist	Total	According to Survey	According to Village Papers
Bengal Bihar and Orusa	53 931 504 71 418,217	3 451 520 18,384,720		18 834 7	20 50 479 984 20 58 083 497	7 53 063 49
Amam United Provinces (Agra)	39 275 494 57 372,987	7 069 920 4,345 232			20' 81 305 574 32 <sub> </sub> 53 027 705	5 52,803 81.
United Provinces (Oudli)	15 306 720	0. 7-4			15 506 720	
Punjab North-West Frontier Province	86 367 319 6 578 499	24 511 384 140 800		24 511 8 140 8		
Upper Burms Lower Burms Central Provinces	57 802,617 54 909 711 74,552 216	3 997 722 19 980 343	}	3 997 75 19 960 84	54,909 "11	54,909 71.
Berar Ajmer Merwara	11 328 700 1 770 921	'	 	10 500 6	11 328 700 1 770 921	11 873 80 1 770 92
Coorg Madras Bombay	1 012,260 97 446 741 85 620 515	6 378,899 36 979 200	}	6 878 89 36 979 20	10 48 541 815	89 542,52 48 641 31
Sind Pargana Manpur*	34 143,132 81 382	3 872,000		8 872 0	00 30 271 189 81 382	30 271 133 31 383
Total	748 863,655	1.9 941 -40		120 941 7	in 618 927 14	5 618 737 746
	Ct	LTIVATED		UNCULTIV	ATED	
Administrations	Net Area actually Cropped	Curre Fallov	nt va otl	Itavable Wasto ber than Fallow	Not avilable for Cultivation	Foresta
Bengal	25 954	900 4 9	14 369	5 201 (198)	10 152,627	4,258,99
Bihar and Orisea Amam United Provinces	27 122, 5 825 26 784	3 13 2,51	78,166 92,200 72,519	7 898,380 15 034 513 7 484 283	9 933 802 5 510 500 7 645 164	4 741 041 2,348,021 8 717 491
(Agra) United Provinces	9 278		84 862	2 776 589	2,227 35	618 18
(Oudh) Punjab North West Frontier Province	24 159 2 140		77 685 97 675	17 416 085 2,734 928	12 386 292 2,627 083	3,348,48: 874,97
Upper Burma Lower Burma	4 963 9 934	260) 63	10 559	10 762 019 14 720 118	21 583 089 23,578 682	12,238,310 6 970,293
Central Provinces Berar Ajmor-Meraara	17 683, 6 938 356, 140	930 1 19	9 ,970 43 005	13,505 064 181 366 127 267	4 097,175 895 442 853,454	14 912,83 2,182,09 90 73 357 79
Coorg Madras Bombay	25,180	908 8,2. 263 6 3:	02,89J 10 373 38 916	20 870 9 963 995 1 525,183	330 449 23 947 400 6 021 149	12,814 764 7 576 75
Sind Pargana Manpur "	9 990	293 293	97 696 292	5 685 387 6 894	14,600 919 878	796 666 16,025
Tetal	224,165,	502 48 70	60,388 1	15 024,887	146,386,582	82,400 281

<sup>\* ▲</sup> British district in Central India.

both of these varieties having been selected from among the mixtures ordinarily grown in the districts. A system of seed distribution was gradually boilt up and now after five on aix years work, there is a vast area under Korangony The Department supplies pure seed to otheract seed growers and buys the seed ection from these men gins it, and arranges the distribution of seed through village depots In Bombay two have been selected as the best out of many hybrids and pure line cottons bred and tried for many years on the Surat farm. They give a distinct advantage both in quantity and quality over the ordinary local retton, and promise to sell at rates 5 per cent. higher. In another part of the province arrange ments are being made to distribute on a large scale seed of another improved form, which can be grown it is estimated, over 1 300 000 acre-tal the bouttern Kanstina Country Broach cotton introduced by the Department is galaxing favour There is said to be scope for \$30 000 acres and the increased profit to the ould vater is estimated at £1 or more per acre In the Central Provinces also two indigenous varieties have been selected. In the United warioties have been selected. In the United Provinces seed of a superior variety is b ing distributed. Whent also has been the subject of projouged experiments One of the first results of the investigations carried out at Pusa, was the demonstration of the fact that varieties with milling and baking qualifies. varieties with milling and baking qualities ment of co-operative societies is felt in similar to those of the best wheatsor the fundath market could be grown to perfection in Bissa. By the application of modern methods of selection and hybridisation these high drain roughly of various patterns and assembly consistent were successfully consistent and atrong states.

Another crop with which considerable attorns has been attained as Ground-mut the cuitivation of which had at the beginning of the decade fallen off owing partly to the preva lence of a functid disease and partly to deficient rainfall Exotic varieties with a better yield have been introduced in Bombay and in Burma outdivation has advanced with extraordinary rapidity

Another success of marked importance achiev ed by the efforts of the provincial agricultural departments is the introduction of agricultural implements and machinery suited to the condi tions of different provinces Information and suitable for various conditions has under present circumstances to be interpreted and brought home to Indian cultivators by a more direct some to include editations from and the agricultural departments have therefore to do a good deal of this work. They have succeeded siready in introducing various kinds of imple ments in different parts of the country seclistance is given in the use and repair of im plements recommended. Up to the present the departments perform to a certain extent the departments perform to a certain extent the functions of dealers in implements but it is becoming difficult to control the work as the area covered by the introductions is gradually becoming large and a need for the develop-

# TEN YEARS' PRÕGRESS.

Is 1915 Mr James Mackenns, 1 Cr Director of Agriculture in Burnes published a brookster in which he reviewed the progress in Agriculture in India in the last ten years Italia reviewing the effects of the work of the new Agricultural Departments he said.

The Agricultural Departments are now re gasted as an integral and important part of the administration The few European and Indian workers of 1905—158 in all—now numbey 300 Their labours are concentrated and co-ordinated they now work on general solt mea of development Farms and demonstration Me, formerly scattered and disconnected have necessed from 35 to 874 and work on them is concentrated on the main problems and not the main problems and not the case over a number of subsidiary and unimportant enquiries

As a result the Department can claim credit or a great advance in general agricultural meetice Cultural and manufal problems mye in many cases been solved. Local machi crop improvement have naturally been dealt with first but given more men and more money all the crops of India will be taken up

Money spent on agriculture is a good in vest-ment but material results are difficult to gauge Many factors have to be considered A whole industry threatened by destruction may be saved by the discovery and application of preventive and protective methods. The treat ment of the paim industry and areca-nut indus try of Wadras and the protection of the potato crop of Patna are illustrations of this kind Again there are the direct gains following the introduction of new or improved crops implements, well boring and improved methods of outivation We may at a conservative esti mate cisim that the increase to the value of the agricultural products of India as a result of the labours of its Agricultural Departments is already about 3; crores of rupeus annually, or over 12,300 000 This is the result of only we in many cases been solved. Local ment of colly ten years work and it must be remundered to be have been improved and adapted or better gliconstate, instruduced. Real and sentenative that every year will show a progressive increase gliconstate instruduced. Real and estimated to debuts, its we have an annual expenditure ark has been done on the improvement of such agriculture which has seen from Rs 8.51,134 greatest over years as wheat, cotton, rice, sugar 553,742 in 1908-95 to Rs 31,30,655 or see and tobsoop. The general principles of

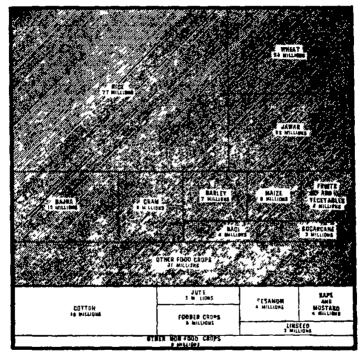
# TOTAL AREA CROPPED IN 1913-14.

# (BRITISH INDIA)

 l atal Area cropped
 247 million acres.

 Area under food crops (shaded)
 203 million acres.

 Area under non food crops (unshaded)
 44 million acres.



NOTE. Other food crops are minor food grams, condiments and spices and miscellaneous food crops

Other non food crops " are offseeds other than seasmun, lineed raje and mustard above other than cotton and jute, dyes drugs and parcottes and miscellaucous non-food crops.

# AREA UNDER INRIGATION IN 1912 13 IN ACRES

			ARMA IRRIGA	TED	
Administrations	Total Area Cropped.	By C	anais.		
	Сторрец.	Govern ment.	Private	By Tanks	By Wells
Bengal	30 498,300	113 768	218 821	816 340	20 160
Bibar and Orissa	38,178,400	971 176	632 683	1 219 884	721 866
ARRETO	6 275 825	978	107 458		
United Provinces (Agra)	32,312,902	2,234 207	22 530	45 700	3,994 984
United Provinces (Oudh)	12,118,835	,	l	1	1 523 396
Puntab	27 510 022	7 026 031,	495,435	12,214	3 601 882
North-West Frontier Pro-	2 049 291	241 079	454 516	,	92,225
Upper Burma	8 397 014	480 745	187 "59"	190 286	14193
Lower Burms	9 039 533	230	23 099	2,775	2,439
Central Provinces	19 434 783	22,228	1,6,1	766,207	62, <b>9</b> 14
Bernr	6 952,079			177	30 681
Ajmer Merwara	395 298		1	32,731	90 100
Chorg	141 343	2,610		1 750	
Madras	39 119 874	3,560 798	238,930	3 613 313	1 682,270
Bombay	26 138,281	186,691	17 719	123 886	578 557
≾and	4 287 061	2,921,783	78,822	4.26	38 93
Pargana Manpul	7 450				207
Total	255 056 431	17 764 817	2,492,623	6 825 189	12,350 801

	AREA IRS	ANTED .		CROPS IND	* CHEAD	
Administrations	Other Sources	Total Area Irrigated	Wheat	Other Cereals and Pulses	Mascel Ianeous Food Crops	Other Crops
Bengal	1 055 541	2,224,12,	23 394	1 997 484	589 239	141 100
Bibar and Orness	1 25 / 659	4,804 770	254,110		1 524 985,	200 623
Amazo	247 482		20 2,110	840 966	14 234	698
United Provinces (Agra)	1 146 862		2 371 337		132 340	1 617 069
United Provinces (Outh)	878 696	2,202,001	824 404		40 525	288,062
Punjah		11 302 184	4.694 907		486 259	3 678 552
Rorth-West Prouter 1'ro-	85 795	873 615	472 211	410 245	53,203	142,672
Upper Burma	96 787	967 770	157	9460 173	42,554	106
Lower Burma	95 319	123 858		110 088	14 034	
Central Provinces	38,894	905 894	1.561	J80 527	305 310	4,496
Botse	693	31 551	8 199	1 575	20,425	1,358
Aimer Merwara	92	122,023	11 807	09 022,	27 369	34,302
Coore		4.860		4 360	1	
Madres	903 441	9 897 750	4 122		1 185 141	488,880
Bombay	96 680	1 003 733	200 609	567 285	160 059	180 710
Sind	233 881	3 274 044	409 230	2,844 542	48,283	<b>865,7</b> 8∪
Pargana Manpur		207	158	43	6	
Total	6 106,144	45,589,074	9,084,400	28,091,394	4,643,968	7 389,417

<sup>\*</sup> Includes the area irrigated at both barvosts

Chor	UNDER CO	DIVATION I	H 1912 18	IR ACRES		
Administrations	Rice	Wheat.	Barley	Jawar or Cholum (threat Millet)	Bajra or Cumba (Spiked Millet).	Ragi or Marca (Millet)
Bongal Bihar and Orisea Assan United Provinces (Agra)	21 166 000 16 074 900 4 646,876 4 387 169	146 800 1 177 400 117 5 435 481	1 332,700 524	3 200 122,300 1 850 929	7,200 93,100 2 183,881	16,800 988 100 1 927 150,681
United Provinces (Oudh) Punjab N West Frontjer Province Upper Burma	2 474,885 741 901 45 905 2 995 713	8 766 689 927 125	1,006 715 214 679	318 441 1 212 222 94 560 516 023	484 608 2 676 833 204 546 239 952	
Lower Burma central Provinces (letur	8 196 042 4 968, 18 31 89	9 304 604 304 951	69	10 1 621 729 <b>2,2</b> 68 670	48 862 104 845	13,543 88
Aimer Merwata Coorg Madras	409 83 022 10 943 785	27,137	ł I	61 346 J 219 733	31 840 3 606 349	26 5 081 2 599 958
Bombay Sind Pargana Manpur	1 980 110 1 087 525 136	1 261 941 456 882 1 629	20 169	7 074 559 603 404 2 584	5 496 435 1 140 866 39	636,287 613
Total	"8 ,5 <u>.</u> 493	29 461 18	7 420 335	º0 9 <b>67 7</b> 30	18,288 801	4 455 53
Adr mistrations	Snaige	Gram (pulse)	Other Food Grains and Pulses	Total Food Grains and Pusics	Lm	Til Jinjili or Ses amum
Bengai Bihar aud Orissa Assam United Provinces (Agra)	97 400 1 771,800 18 970 1 378 557	184 100 1 286 500 915 4 022 708	1 845 800 5 688 000 92,544 4 386 632	28 484 80 4 761 37	0 677,200 9 12 615	238 400 10 479
United Provinces (Oudh) Punjab N. West Frontier Province Upper Burms	829 463 1 097 989 418 584 160 084	1 484 783 3 400 919 168 953 33 004	2 283 450 3 481 810 121 453 98 085	11 112 10 20 405 84 2 194 90 3 168,45	0 43 318 1 15	19 996 157 928 9 457 1 142 079
Lower Burms Central Provinces Berar	24,085 147,730 1,961	1 887 1 003 026 118 034	9 3 781,391 645 118	8,222 18 14 905 42 8 468,08	9 1 110 879	*2 909 694 917 88 044
Ajmer Merwara Coorg Madras	68,484 183 930	9 257 276 134 <b>49</b> 8	49 077 1 505 8 075 612	89,88	4	3 <b>3,36</b> 9 2£0 812,840
Rombay Sind Pargana Manpur	163 865 1 501 1,081	499 349 75 499 650	2 687 776 228 738 60		7 94	68,634
Total	6,316,089	12 422 848	80 907,560	201,372 57	8 195 067	4 164 045

Administrations.	Rape and Musterd.	Otiber Oil Seeds.	Total Oil Seeds	Condiments and Spices	Sugar Cane.	Sugar Other
Bengal Bibar and Orissa Assam United Provinces (Agra)	1,325,400 724,600 298,416 75,144	45 800 543 700 134 58 120	1 822,200 2 173 200 21 646 770 630	92 700 8 880	221 800 270 700 35,928 1 174,637	49 800 300
United Provinces (Oudh) Punjab N West Frontlet Province Upper Burma	72,487 887 781 79 620 281	1 804 4 668 40 *198 970	247 601 1 093 690 59 142 1,336 385	J 210	249 407 307 873 29,879 1046	24 28
Lower Burma Central Provinces Berar	3 3.1 42,229 441	*5 727 888,604 59 392	81 987 2 536,629 241,032	53 934	11 168 24 905 1 092	1 043
Ajmer-Merwara Coorg Madres	18	1 231 16 2 107,153	35,738 284 2 942 49,	3 63~1	210 98,888	87 90
Bombay Sind Pargana Manpur	4 295 41,237	5°1 409 149 261 381		183 246 8 882	53 "28 4,935 3	48 <sup>1</sup> 2,14,
Total	3,555,800	4 091 368	14 935 ~80	1 390 237	22ر 46ر 2	165 569
Admin <b>utrations</b>	Cotton	Jute	Other Fihrea,	Total   Fibres	Indigo '	Other Dyes,
Bengal Bihar and Orima Assam United Provinces (Agra)	26,200 87,200 86,052 1,089,440	2 927 100 298 500 98,351	35 900 20 000 311 115 183	2,989 200 406 300 194 714 1 174 57P	1,000 90 400 22 930,	9 860 16 1 186
Cuited Provinces (Oudh) Punjab N W Frontier Province Upper Burms	59 932 1 442,829 55 104 208 787		24 064 34.787 738 366	1 49 716 55 842	4 591 98 089 16 128	210 20 <b>2</b> 3
Lower Burms Contral Provinces Bernz	32,267 1 355 205 3 138,394		355 85 691 54,378	32,622 1 440 896 3 193 772	1 18	, 54 75
Ajmet Merwara Coorg Hadras	49 191 9 2,385 998	:	1#1 114 290 708	49 322 122 2,679 706,	27 66 552	2,67
Dembay Sind Pargana Maupur	3,910,845 287 875 563		121,720 858 67	4 032 565 288 241 610	25 • 271	396 321 568
Total	14,188,497	8 128 961	806,911	18,268,359	£37,046	412,100

	118150		Charles	•••		261
Chor	O UNDER CO.	LTIVATION	IN 1012-1	S IN ACRE	1.	
Administrations	Oplam	Coffee	Tea.	Tobacco	Other Drugs and Nar cotics.	Fodder Crops
Rengal Bibar and Orinsa Assam United Provinces (Agra)	100 014	1	150 500 9 200 861 67 7 99	0 106,300 1 8 992	2 800,	115,800 22,100 4 541 990,090
United Provinces (Oudh) Punjab N W Frontier Province Upper Burma	94,525 2 545 200	60	9 87 1 72	8 737	1 010 461 3 642	143 836 3 650,287 92 586 32,500
Lower Burma Central Provinces Berar	1	4		58 458 13 216 11 453	30 196 260 7	1 706 869 17- 715
Ajmer Marwara Coorg Madras		42 510 49 287	23 88	40 23 0 203,599	2.6 49.643	2 27
Bombay Sind Pargana Manpur		10	1	4 71 942 7 456	24 946 97	100,298
Totul	197 314	91 313	 	6 264 726	119 38	5 770 460
Administrations	bruits and Vegetab les including Root Orops	Miscella Crop		Total Area Cropped	Deduct Area Cropped more than once.	Het Area Cropped
Bengai Bihar and Orizas Atsam United Provinces (Agra)	826 300 766,900 400 44 1 255 176	450,500 490 800 42 638 137 791	350 700 262 300 72 876 35 522	30,498 800 33,178 400 6 275 825 32 312 902	4 543 400 6 056 300 450 492 5 526 674	25 954 906 27 122,104 5 825,832 26,784,226
United Provinces (Oudh) Punjab N W Frontier Province Upper Burms	94 486 257 431 9 392 519 638	55 813 82 755 59 177	2 575 16 566 2 883 3 525	12 118 835 27 510 022 2 549 281 5 397 014	2,840 377 3 351 006 409 124 483 311	9,278,456 24,159 010 2 140 10 4 968 70
Lower Burma Central Provinces Berar	446 207 87 868 11 413	2,361 2, <b>2</b> 30	126 456 631 248	9 039 533 19 434,768 6 952 079	5 273 1 750 961 13,149	9 034,266 17,683,82 6,938 98
Almer Merwara Coorg Madras	556 4 628 1 164 356	7 494	938	395,298 141 848 39 119,874	38,835 1 090 4,513 971	356 46 140, <b>35</b> 34,605, <b>9</b> 0
Bombay Sind Pargana Manpur	590 412 41 758 3	1 245 101	2 076 45 820 16	26 138,281 4 287 061 7,650	968,018 296 491 857	25 180 98 8 990,570 7,20
Total	5 466,857	1,832,405	1,067 975	955,858,691	81,190,899	234,165,80

Crap Percents for 1915-18.—Th following is a summary of the various crap forecasts relating to the season 1915-16 issued by the Department of Statistics, India, and published in the late column —

<del></del>	_ <del></del>		_	
Стор	Tracts comprised in the figures and percentage of total Indian croper presented by them	hstimated Area	Per cont (100= average of five years at corresponding date).	Per cent (100= average of five years at corres ponding date).
Sugarcant	U P Punjab Bihar and Oresa, Bengal, Madras, Bombay and Sind * Assam, N W F Pro- vince and C P and Berar (99 per cent of total sugarcane area of British India.)	4ctes 2 508 000	Por cent 10s	
Sesamum	U.P., C.P. and Berar Madras, Bombay and Sind,* Bengal Bihar and Orissa Punjab and Aimer Merwara (78 per cent of tota) easmum area of Bri tish India)	J 16 <sup>-</sup> NAO	104	
Cotton	All cotton-growing tracts	16, <sub></sub> -3,040	52	
Indigo	Practically all Indigo growing	8 100 دے	111	
Rice	tracts Bengal, Bihar and Ornsea Mad ras Burma, U P C P and Berar Burma, U P C P and Berar Burnbas, and Sind* and Assam (99 per cent total rice area of British India)	T4 431 000	117	
Groundnut	Madras Bombay* and Burms (99 per cent of total ground nut area of British India )	1 4-000	140	

<sup>.</sup> Including Natives States

# THE CIVIL VETERINARY DEPARTMENT

To the Civil Veterinary Department, which far short of the sauctioned establishment, the To the Gvil Velevinery Department which originated in 1892 as an expansion of the military horse breeding department is entrusted the performance or supervision of all official velevinery work in India, other than that of the Army Its duties fall under the main heads of cattle dream and actig breeding, horse and cattle breeding, and educational work in veteri nary subgers.

In 1998 and the following years both the superior and partly to the Agricul vertice and the subordinate establishments: Of late years small velepinary department, the subordinate staff in most provinces was still very started in next provinces was still very started in several native sizes.

# Meteorology.

The meteorology of India like that of other countries is largely a result of its geographical position. The great land area of Axia to the northward and the enormous see expanse of the Indian Ocean to the southward are the determining factors in settling its principal meteorological features. When the Korth meteorological reasures. When the Northern Hemisphere is turned away from the sun in the northern winter, Central Asia becomes an area of intense cold. The meteorological conditions of the temperate zone are pushed southward and we have over the northern provinces of ludia the westerly winds and eastward moving cyclonic storms of temperate regions, while when the Northern Hemisphere is turned towards the sun, Southern Asia benomes a super heated region drawing towards it an immense current of air which carries with it the enormous volume of water vapour which it has picked up in the course of its long passage over the wide expanse of the Indian Occan so that at one season of the vear parts of India are deluged with rain and at another

persistent dry weather prevails.

Monsoons. The all important fact in the meseorology of india is the alternation of the sensons known as the summer and winter mon soons. During the winter monsoon the winds are of continental origin and hence, dry flue, wea-ther clear skies, low humidity and little air movement are the characteristic features of this season The summer rains cease in the pro-vinces of the North West Brontler Province and the Punjab about the middle of September and the Punjab about the middle of September after which cool westerly and northerly winds set in over that area and the weather becomes fresh and pleasant. These fine weather conditions extend slowly eastward and southward or that by the middle of October they embrace all parts of the country except the southern half of the Peninsuits and by the end of the year have extended to the whole of the Indian. and and sea area, the rains withdrawing to the Equatorial Belt Thus the characteristics of the cold weather from October to February of the cold weather from october to sentently over India are —Westerly winds of the temperate sone over the extreme north of India, to the south of these the north-east winds of the winter monocon or perhaps more properly the north-cest Trades and a gradually extending area of flos weather which as the season progresses, finally embraces the whole Indian land and sea area. Two exceptions to these fine weather conditions exist during this period, the Madras coast and the north west of India In the tormer region the north-east winds which set in over the Bay of Bengal in October coalesce with the damp winds of the October coateses with the damp wings of the retreating summer moneoon, which current curves round over the Bay of Rengal and blowing directly on to the Mathas coast gives to that region the wettest and most disturbed weather of the whole year for while the total rainfall for the four months June to September is the summer momeon, at the Madras Ob-servatory amounts to 15 35 inches the total rainfall for the three months October to December amounts to 59 43 inches. The other reprint is which the weather is unsetted, during this period of generally settled conditions, is Noth-west India. This region during January, February and part of March is traversed to the conditions.

a wooccasion of shallow storms from the west-ward The number and character of these storms vary very largely from year to year and in some years no storms at all are recorded. In normal years however, in Northern India periods of fine weather alternate with periods perious of the weather accurate with perious of disturbed weather (occurring during the passage of these storms) and light to moderate and even heavy rain occurs. In the case of and even heavy rain occurs. In the case of Peshawar the total rainfall for the four months, December to March, amounts to 5 26 Inches while the total fall for the four months. June to September is 4 78 inches, showing that the rainfall of the winter is absolutely greater in this region than that of the summer mon-In this region than that of the summer mon-mon These two periods of subsidiary rains are of the greatest economic importance. The fall in Madars is, as shown above, of considerable actual amount, while that of North west india though rmal in absolute amount is of the greatest consequence as on it largely depend the grain and wheat crops of Northern India.

Spring Months — March to May and part of June form a period of rapid continuous increase June form a period of rapid continuous increase of temperature and decrease of barometric pressure throughout India. During this period there occurs a steady transference northward of the area of greatest heat In March the maximum temperatures alightly exceeding 100 occur in the Deccan in April the area of maximum temperature, between 100° and 105° lies over the south of the Central Provinces and Gujarat in May maximum temperatures, varying boween 105° and 110° provail over the greater part of the interioe of the country while in June the highest mean maximum temperatures exceeding 110° occur in the India valley near Jacobabad. Temperior in the India valley near Jacobabad. Temperior in the India valley near Jacobabad. Temperior of the country while in June the highest mean maximum temperatures exceeding 110° occur in the India valley near Jacobabad. Temperior in the India valley near Jacobabad. maximum temperatures exceeding 110 occur in the Indua valley near Jacobabad. Tempe-ratures exceeding 120° have been recorded over a wide arcs including Sind Rajputana, the West and South Punjab and the west of the United Provinces but the highest tempe rature hitherto recorded is 125° registered at Jacobabad on June 12th, 1897 During this period of rising temperature and diminishing betrometric pressure, great alterations take place in the air movements over India, includ ing the disappearance of the north-east winds of the winter monegon and the air circulation ever India and its adjacent seas, becomes a local circulation characterised by strong hot winds down the river valleys of Northern India and increasing land and sea winds in the coast regions. These land and sea winds, as they become stronger and more extensive, initiate large contrasts of temperature and humidity which result in the production of violent local These take the forms of dust storms storms in the dry plains of Northern India and of thunder and hallstorms in regions where there is interaction between damp ees winds and dry winds from the interior. These storms are trequently accompanied with winds of exces-sive force heavy hall and corrental rain and are on that account very destructive.

By the time the area of greatest heat has been established over north-west India, in the last week of May or first of June, India has become the seat of low barometric pressures relatively to the adjacent seas and the whole character of the weather changes. During

the hot weather period, discussed above, the winds and weather are mainly determined by local conditions. Between the Equator and Lat. 30° or 35° south the wind electrication is that of the south-east trades, that is to say from about Lat. 31° 35° south a wind from south-east blows over the surface of the sea an to about the equator. Here the air rises and the country over the surface of the sea up to about the equator. Here the air rises less the upper strata to flow back again at a considerable elevation to the Southern Tropic or beyond. To the north of this circulation, i.e., between the Equator and Lat. 200 to 250 to, proven the Equator and Lat. 20 to 22 Horth, there exists a light unsteady circulation, the remains of the north-east trades that is to say about Lat. 210 North there is a north cost wind which blows southward till it reaches the thermal equator where side by side with the south-east Trades mentioned above air rues into the upper strata of the atmosphere. mediate neighbourhood of land there are the which are attributable to the difference in the beating effect of the sun a rave over land and sea. It is now necessary to trace the changes which occur and lead up to the establishment of the south-west monsoon period. The sun at this time is progressing abovity northward towards the northern Tropic Hence the thermal equator is also progressing northward and with it the area of accent of the conth-cast trades circulation. Thus the south-cast trades winds cross the equator and advance further and further northward, as the thermal equator and area of escent follows the sun in its north ers progress. At the same time the temperature over India increases rapidly and baroneutric presume diminishes, owing to the air rising and being transferred to neighbouring cooler regions—more oppedily the sea area. This we have the southern Trades dereulation extending northward and the local land and sea eleculation extending southward until about the hoptaning of June the light unsteady loberiering circulation over the Arabian Sea finely breaks up, the immense circulation of the south-east Trades, with its cool moisture of the south-east Trades, with its cool, moisture halass whole rushes forward becomes linked on to the local circulation proceeding between the Indian land are and the adjacent seas and India is invaded by occanic conditions—the south-waved meansons proper This is the most important assess of the year as upon it depends the prosperity of at least five-rixths of the people of India.

When this current is fully established a continuous air movement extends over the Indian Geom, the Indian sees and the Indian land area from Let. 50° 8. to Let. 50° 0. The northera half the south-west monsoon. The most important fact about it is that it is a continuous important fact about it is that it is a continuous inclusived air movement passing over an actessive occanic area where steady evaporation is constantly in progress so that where the current extert the Indian seas and flows ever the Indian lead it is highly charged with acquisites wapours.

The Current enters the Indian state quite at the communication of Fare and in the communication two wasts spreads over the Arabian Bas and Bay of Bongal up to their

extreme neethern limits. It advances over India from these two seas. The farabiane securities thows on to the west coast and sweeping over the Western Ghats prevails more or tess exclusively over the Peninsula, Central India, Balputana and north Bombay The Bay of Bengal current blows directly up the Bay One portion is directed towards Burms, Rest Bengal and Assam while another portion curves to south at the head of the Bay and over Bengal, and then meeting with the barrier of the Himalayas curves still further and blows as a south-easterly and easterly wind right up the Gangetic plain. The south west mon soon continuous for three and a half to four months, each from continuous rain prevails throughout india the principal features of the rainfall destribution being as follows. The greater portion of the Arabian Sea current, the total volume of which is probably three times as great as that of the Bengal current, blows directly on to the west coast districts and to the coast districts and to the helly rasge, is forced into ascent and gives heavy rain alike to the coast districts and to the helly rasge, the total averaging about 100 inches most of which fails in four months. The current the rain of the Carabian sease out into the Bay where it coalesces with the local current. The northern portion of the current blowing across the Gujarat Kathiawar and Sind coasts gives a certain amount of rain to the coast districts and frequent showers to the Aravalli Hill range curtain rainount of rain to the coast districts and passing onward gives moderate to heavy rain in the Eastern Punjub Bastern Rajputana and passing onward gives moderate to heavy rain in the Eastern Punjub Bastern Rajputana and the North-west Himalayas In this region the current meets and mices with the monsoon terrent from the Bay

The monacon current over the southern half of the Bay of Bengal blows from southern west and is thus directed towards the Tenasserim hills and up the valley of the Irrawady to which it gives very heavy to heavy rain That portion of this current which advances unficiently far northward to blow over Bengal and Assam gives very heavy rain to the low-lying districts of Bast Bengal and immediately thereafter coming under the influence of the Assam Hills is forced upwards and gives excessive rain iperhaps the heaviest in the world) to the southern face of these hills. The remaining portion of the Bay current advances from the southward over Bengal is then defected westward by the barrier of the Himslayss and gives general rain over the Gargete plain and aimost daily rain over the lower ranges of the Himslayss from Sikhim to Kash-mir

To the south of this sasterly wind of the Bay current and to the north of the westerly wind of the Auskian Sea current there exists a debatable area running roughly from Hisuria the Punjab through Agra, Aleshabad and part of Choia Ragpar to Orissa, where softlere current of the moments prevails. In this seaths sainfall is important and would probably he light, but that the storms from the Bay of Bengal widthis a marked tendency to advance along this track and to give it heavy falls of occasional rain.

occasional rain.

The Total Rainfall of the mousoon period (June to September) is 100 inches over part of the west coat, the amount diminishes easily the below 30 inches over a large part of the centre and east of the Perinsula and is only 5 inches in South Madras it is over 100 inches on the Tenasserim and South Burma coast and decreases to 20 inches in Upper Burma it is over 100 in the north Assam Valley and diminishes etseafly westward and is only 5 inches in the Indus Valley

The month to mouth distribution for the whole of India is -

May	2 60 Inche	
June	7 10	
July	11 25	
August	0 32	
Beptember	6 78	
October	8 15	

Cyclonic storms and cyclones are an almost invariable leadure of the monsoon period. In the Arabian Sea they ordinarily form at the commencement and end of the season, wir May and November but in the Bay they form a constantly recurring feature of the monsoon season. The following gives the total number of storms recorded during the period 1377 to 1901 and shows the monthly distribution —

July Aug. Sep Oct. Nov Dep. Arabian Sea 2 1 1 5

The preceding paragraphs give an account of the normal procession of the seasons throughout India during the year but it must be remembered, that every year produces variations from the normal, and that in some learns these variations are very large. This is more particularly the case with the discontinuous element ratinfall. The most important variations in this element which may occur are—

- Delay in the commencement of the rains over a large part of the country this being most trequent in North Borelsy and North-west India.
- (2) A prolonged break in July or Angust or both.
- (3) Early termination of the rains, which may occur in any part of the country
- (4) The determination throughout the most soon period of more ram than meal to one part and less than untai to snother part of the country Examples of this occur every year.

About the middle of September fine and fresh weather begins to appear in the extreme north-west of India. This area of fine weather and dry winds extends eastward and southward, the area of ramy weather at the same time contracting till by the end of October the rainy area has retreated to Madras and the south of the Peninsula and by the end of December has disappeared from the Indian region, fine clear weather prevailing throughout. This processor with the numerous variations and modifications which are inseparable from metorological conditions repeats itself year after year

(for monsoon of 1915 see page 286)

# MONSOON OF 1915.

west coast about the middle of June, a fort-night after the normal date and although it gave abundant rain to the greater part of the Pennaula, it failed to pnetrate properly into regions further north. The Bay current set in very gradually and at first provided less rain ir Assam Bengal Biliar the United Provinces than usual with the result that over practically the whole tract, stretching from Bihar and Origan to the valley of the Indus the rainfall of June was mor or less in defect of the normal. In the area comprising the Purjab Sind and Rainutana the month a fall was barely 50 per cent of the average During July there was a marked break between the 2nd and the 12th and although theresiter there was a gradual improvement in the general activity of the currents the monsoon failed to extend antis factorily into Rajputana And and the Punjab But little change occurred in the general beha viour of the monsoon in August the chief features of which were an almost complete break in the field of the Aralian Sea current between the 9th and the 20th and the accentuation of the drought in north west India A marked increase in the activity of the mongoon took place in September and with but slight variation lasted up to the 12th of October when winter actions set in over Vorthern India. The improvement was most noticeable in north west India in most parts of which favourable rain occurred and the drought which at one time threatened to prove as serious as in 1877 was mitigated considerably

As moustly happens during seasons of weak monsoon conditions there were comparatively few cyclonic disturbances and of these the only noteworthy one was that which occurred

three weeks after the average dat

The Arabian Sea monsoon arrived on the ! India did not depart to any great extent from the normal, being in defect by only 2 or 5 per cent Its geographical distribution was cent Its geographical distribution however not quite satisfactory Thus the total fall for the monsoon season in northern and central india exceeded the normal only East Central India East and the Central Provinces while the total fall in the Peninsula was greater than usual everywhere except in Madras South-east and Konkan

> The excess was greatest in the United Pro The excess was greatest in the united true vinces bast (17% or 47 per cent.) Bombay Deccan (5% or 25 per cent.) while the direct was most pronounced in Orlass (11 or 22 per cent.) Chota Naspur (18° or 29 per cent.) Punjab ("" or 48 per cent.) Raspurana (s. or 45 per cent.) ("or so per cent) inspurant (e. or 40 per cent) (ularat (11) or 60 per cent) and central India West ("or 26 per ont) (on thering the smallness of the normal fall the shortage was serious also in Sind and the North West Frontier Province

In Burms the recorded attentity was very nearly normal

For meteorological purposes India is divided into 33 sub-divisions and taking the whole season from 1st June to 15th October in three of these the rainfall was in excess of the normal by more than 20 per cent in eighteen within 20 per cent of the normal and in the twelve remaining divisions in defect by more than 20 per cent

The most characteristic features of the moneom of 1915 thus were -(a) Its late arrival. (b) Its weakness and unstradinger in July and only noteworthy one was that which of caused a deluge towards the end of August and caused a deluge Arabian sea current (c) its fallure to penetrate of rain in the region round Lucknow and into north west India before the middle of the contract of the middle of the contract of the middle of the contract of the middle of the middle of the contract of the middle of Campore
The final retreat of the monsoon from north
the middle of October in north west india
west india occurred on October 12th about
where as a rule the rains come to an end in the third week or September and (e) its unusual The aggregate rainfall of the whole season concentration in the Peninsula to the detriment from June 1st to October 15th in the plains of of northern India

	Raj	nfall, 1st June	to 15th Octob	er 1915
Division	Actual	Normal.	Departure from normal	Percentage departure from pormal,
Burna Arum Bengal Behar and Orima United Provinces Punjab North West Frontier Province Sind Baiputana Boombay Camizal India Canizal Provinces Endemnad Endem	75 1 58 2 5 60 3 8 41 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	81 0 2 8 5 5 8 8 5 7 7 8 5 7 8 1 5 8 1 8 8 6 1 8 8 6 1 9 8 7 28 4 4 8 29 7	-5000000000000000000000000000000000000	7 8 3 12 16 46 69 7 4 45 9 7 4 4 5 4 6 6 6 6 7 4 6 6 6 6 6 6 6 6 6 6 6 6 6
Mean of India	26 9	#8 8	-19	, 5

# The Textile Industry.

india has been the home of the cotton trade from the earliest times. Its cottor known as white wood, was well known to the ancients and its cloth was familiar to the West in the days of the overland route. The name Calleo comes from the fine woven goods of Calleut, and the products of the Dacca handleoms are still remarkable as the finest muslins human still can produce

# Indian Cotton.

The exports of Indian cotton began to assume importance with the opening of the sea route.

They received an immenso stimulus during the American Civil War when the close blockade. American Cavit war when the close blookade of the Confederate ports produced a dotton famine in Lancashire and threw the English spinners back on India for their supply of raw material. When the war broke out the shipments of Indian cotton were 528 000 bales but during the last years of the war they aver aged 978 000 bales. Most of this cotton was sold at an enormously inflated price and induced a flow of wealth into Bombay the great centre of the trade for which there was no outlet. The consequence was an unpreceno outlet. The consequence was an unprecedented outlets of speculation known as the "Share Mania, and when the surrender of Lee re-opened the Southern Ports widespread ruin followed It is estimated that the surplus wealth brought into the country by the American Civil War aggregated £92 millions Since then the cultivation of Indian cotton although interrupted by familie, has steadily licreased For the last season for which returns are avail sable, 1914 13 the total area in all the territories reported on was computed at 24 632 000 acres which marked a not decrease of 388 000 acres of 1 55 per cent on the 2.020 000 acres | Japan (revised figure) of the previous year. The total estimated outtorn was 5 232,000 belies of Germa 400 lbs. as against 5 065 000 bales for previous year representing an increase of nearly 8 29 year representing an increase of items of 29 per cent. To this figure may be added some 1,000 bales estimated as the production in Native States in Benar and Orissa which make no return

Bombey, the Central Provinces and Hy Jerabad are the shelf producing contres. The following table gives the rough distribution of the outturn. The figures are the estimated figures for the past season and are not exact, but they indicate the distribution of the crop.

During	46 000	207 000
Behar and Orlese	16 000	72 000
Amam	12 000	84 000
Hyderabad	400 000	J 605 000
Bengal	35 000	92 000
United Provinces	482,000	1 545 000
A jmer-Merwara	15 900	84 000
Punjab	474,000	1 855 000
North West Frontier	13 000	60,000
5in4	121,000	381,000
Bombay and Baroda	1,724,000	7,542 000
Contral Provinces	1,097,000	4,709,000

Central India	292,000	1,520,900
Madras	323,000	2,383,600
Rajputana	168,000	420,000
Mysore	12.000	107,000

Of an average outturn of four million bales it may be said that 1,738 000 bales are exported, 1781 000 consumed by the Indian mills, and 450 000 consumed in India outside the mills. The distribution of the export trade is indicated in the appended table.

Exports of cotton.—A portion of the Indian crop of the season 1913-14 and a portion of the crop of the season 1913-14 and a portion of the crop of the season 1914-15 came into statistical consideration in the exports amounted to 104 million cwts valued at Rs 884 crores against 104 million cwts valued at Rs 884 crores against 104 million cwts valued at Rs 884 crores against 104 million cwts valued at Rs 884 crores against 104 million cwts valued at Rs 885 crores against 105 million cwts valued at Rs 886 crores control that the control of the total exports of the total value of nearly 3 per cent in quantity and 18 per cent in value. The average declared value of nearly 3 per cent in quantity and 18 per cent in value. The average declared value per unit fell from Rs 28-10-1 to Rs 32-9 pr cwt or by 10 per cent and the total loss dur to reduced prices amounted to Rs. 64 crores. The distribution of the trade is shown blow About 62 per cent of the trade was effected in the pre war period. The United Kingdom Italy and Japan had larger receipts thring the war period as compand with those in the carify repriod as compand with those in the carify repriod as compand with those of cotton other than Japan are in normal years Germany. Belgium Italy Austria-Hungary and France.

Exports of Raw Cotton 1918 14 1914 15 Tons Tons pan 446,878 222 74

Italy	42 429	67 745
Germany	84 40 3	61 974
Belgium	56 654	39 718
United Lingdom	19,246	35 389
Austria Hungary	37 352	29,287
France	26 21 3	27 614
China	9 714	12,409
Spain	8 847	11 248
Bombay is the great	centre of the	cotton
trade. The principal va	rieties are Dh	olieras.
Broach, Comras (from the	ne Berara) D	harwar
and Coomptas. Broach	is the best	ontton
grown in Western India.	Hinganghat	ontton
from the central Province	es bas a proce	TADA
tation Bengals is the		
cotton of the Gangetic		
to the cottons of Norther	n India. The	Madras
cottons are known as	Westerns Con	
Colminatores and Tinne	velice The I	
these is Tinnevelly C	mbodla cott	, be a
been grown with speces	i in Southern	Todle
but it shows a tendency	to report T	ha blank
prices of cotton realised	of toward was	- men
given a great impetus to	or toomic you	lovers-
ment have also been act	ine in impose	
Intelliging the very produced	ave m impiov	1111
class of cotton produced hybridization and the i	e by accut an	arcide.
	mixeres or	
with a considerable mea	Rate of Broces	a, carry
have not proceeded far	SECOURT TO 1987	ren ED6
whole cettarn, which still	COORDINATE FOR T	30 Diese.

t of a short-staple early matering variety, table to shis where the rainy season is brief. Reference has been made to the popularity the Indian handloom sloths in the earlier downtry and made her dependent on the United Kingdom for the bulk of her plees goods. The state of which we have record. This trade Kingdom for the bulk of her plees goods. The first strengt to establish a cotton mill in Indian memoring in 1701 probabilities the use or in Bombay in 1858, but the foundation of the indian callocet in England. The in Bombay in 1856 Theresiter, with occasional set hack from families plague and other causes its progress was rapid.

The following statement shows the quantity (in pounds) of years of all counts spin in all India the twelve months, April to March, in each of the past three years —

		1	1012-18	1913~14	1914–16
ombav adras engel P mjab P and Berar ative States	•		485 666 927 44,974 188 87,855 118 48 765,289 5 389 83 33 551 772 37 690 524	479 682,97, 44 673 626 58 219 947 44 468,506 6 274,754 36 582,870 37,924,174	448,556 493 48,081 691 31 708,798 50,281,135 6 813,549 84 565 150 86 946 491
	GRAND TOTAL	_	688 472 902	682 776,861	651 908,307

The spinning of yarn is in a large degree centred in Bombay, the mills of that province pro-incing nearly 75 per cent, of the quantity produced in British India. The United Provinces of tages and Outh and Madras produced about 7 per cent cach, while Bengal and the Central Pro-faces produced 5 5 and 4 7 per cent respectively. Elsewhere the production is as yet very

# BOMBAY SPINNERS

Here is a detailed statement of the quantity (in pounds) and the counts, or numbers, of yarn poin in Bombay island -

per in 20202, 422				
-	{	1912-13	1918-14	1914–15
		•		
Nos. 1 to10		95 429 461	80 351 981	88 219 669
, 1129 , 2130		188 102 363 74,850 464	186,216 658 74 751,191	162,657 972 68,552,972
., 81—40		4 420 751	3,880,673	4 016,805
Above 40		837,260	822,267	590,082
Wasten, &c		40'701	51 911	105,902
	Total	488 681 000 <sup>1</sup>	3.5 024 698	822,153 282
Th corresponds		n at Ahmedabad labad are as tollows		
	<del>-</del> -	1912-18	1913-14.	1914-15
Nes. 1-10		2,039 676	1,508 504	2.239 295
• 1190		15 656,678	14 912 547	21 010,020
21—30 81—40		37,049 666	39,543,101	39,011,871
Allore 40		11 687 071 1.875 446	11,890 408	8 970,948 252,906
Waster, do.		1,682	958,218 144,959	4,718
				-,,,,,
		1 1	1	

67,810,194

65,052,787

72.487.652

TOTAL

# YARN SPUN THROUGHOUR INDIA.

The grand totals of the quantities is various counts of yarn spun in the whole of India, including Native States, are given in the following table —

	1912-13	1918-14	1914-15
Nos. 1—10 " 11—20 " 21—80 " 21—40 Above 40 Wastes, &c.	137 002,274 869 598 282 158,3 36 811 19 641 700 2,927 880 660 955	130 783,748 861,908,914 166 994 607 19 712,296 2 696 686 678,598	180,978,132 848,284,826 156,280,874 18,780,101 9,282,668 473,216
Tor	LL 688 472 902	682 776,851	651 908,307

In the early days of the textile industry the energies of the millowners were largely concentrated on the production of yarn both for the China market, and for the handlooms of India. The increasing competition of Japan in the China market, the growth of an indigenous industry he China and the uncertainties introduced by the fluotiations in the China exchanges consequent of variations in the price of silver compelled the millowners to cultivate the Home market. The general tendency of recent years has been to spin higher counts of yarn, importing American cotton for this purpose to supplement the Indian supply, to creek more looms and to produce more dyed and bleached goods. This practice has reached a higher development in Bombay than in other parts of India and the Bombay Presidency produces nearly 87 per cent. of the cich woven in India. The United Provinces produces 8 B per cent. the Central Provinces 5 per cent. and Madras about 8 per cent. Grey (unbleached) goods still represent nearly 77 per cent. of the whole production but dyeing and bleaching are making rapid progress.

# ABALTEIS OF WOVEN GOODS.

The following brief extract is taken from the statement of the quantity (in pounds and their equivalent in varia) and description of woven goods produced in all India, including Native States—

<del></del>	1912-18	1918-14	1914-15
Grey and Bleached plece-goods-			
Pounds	211 111 891	202,763 449	218,576 441
Yarda	914 191,286	872,445 720	880,501,618
Coloured place-goods-			,
Pounds	71 828 052	68,829,264	61 067,167
Yards	805,251,800	291 845 866	255,206,334
Grey and coloured goods other than piece- goods			
Pomds	1,812,894	2,166,496	1.785 081
Dozens	415 188	687 640	512.485
Hoslery—		05.02	V-2,000
Pounds	600 997	471 849	285 918
Повели	284,799	967 411	179,273
Miscellaneous-	22,755	201 122	4.4/=40
Pounds	217 668	157,998	841,268
Total—		25.,005	
Pounds	285 491 002	274,388,550	277 006,900
Yards	1,220 442,545	1.164.291.588	1,135,707,982
Dogens	699 988	905,081	691,858

# BOMBAY WOVER GOODS.

The output of woven goods during the three years in the Bombay Presidency was as follows. (The weight in pounds represents the weight of all woven goods, the measure in yards represents the equivalent of the weight of the grey and coloured piece-goods.)

	1913-13	1913-14.	1914-25.
Pounds	280,262,580	218,642,781	998,160,813
Yards	1,001,664,978	941,672,595	998,140,396
Dossta	495 076	761,805	500,180

part of a short-simple early matering variety seitable to solls where the rainy season is trief.

Reference has been made to the popularity of the Indian handloom eloths in the carlied security and made her dependent on the United for the property of the ladden handloom eloths in the carlied security and made her dependent on the United Elization for the bulk of her pieco-goods. The days of which we have record. This trade grows so large that it excited sharm in Hegiand to was killed by a series of enactaments, commencing in 1701 probibilities the use or sale of Indian calloons in Registral. The in Bombay in 1835 but the toundations of the first mill in Bombay in 1835 must be seen the constitution of the spinning lenny and the power causes its progress was rapid.

The following statement shows the quantity (in pounds) of yarn of all counts spun in all India

		19119	1913-14	1914–15
Bombay Madres Bengul U P Pemjab C. P and Berer Native States	•	485,566,927 44,974,138 37 355,113 43 766,299 5,359,389 38,681 772 37,890 324	479 682,975 44,678 626 53 219 947 44 468,506 6,274,764 86 582 670 27 924 174	448 556 493 43,051 591 51 708 798 50,281 135 6,813,549 84 565 150 36 946 491
	GRAND TOTAL	688,472,902	682 776 851	651 908 307

The spinning of yarn is in a large degree centred in Bornbay, the mills of that province producing nearly 76 per cent. of the quantity produced in British India. The United Provinces of Agra and Oudh and Madras produced about 7 per cent. each, while Bengal and the Central Provinces produced 5 5 and 4 7 per cent. respectively Elsewhere the production is as yet very limited.

# BONDAY SPINNERS

Were is a detailed statement of the quantity (in pounds) and the counts or numbers, of yarn

95,429 461 168 102,368 74,850 464 4 420 751 887,250	89 351 981 186,216 653 74 751 191 3 830 678 622,987	8819 069 162,657 972 66 552,972 4,016 805
188 102,368 74,850 464 4 420 751 887,260	186,216 653 74 751 191 3 830 678	162,657 972 66 552,979 4,016 808
74,850 464 4 420 751 887,250	74 751 191 3 830 678	66 552,972 4,016 805
4 420 751 887,250	3 830 678	4,016 805
	999 997	
	1 000,001	59 <b>9,</b> 062
40 701	61,911	105 902
368 681 000	3.5 024 696	822,153,282
	<del></del>	
	368 681 000 AHMBDABAD are as follow	368 681 000 3.5 024 690

	<b></b>	1912-13	1913–14.	1914-15	
Not. 1-10 11-20 21-30 31-40 Above 60 Wasten, &c.		2,089 676 15 656,673 87 049,666 11 687 071 1,375 448 1 602	1,508 504 14 912 547 89,543,101 11,896 408 958,218 144 959	2,889,295 21,010 020 39 011,871 8 970,048 252,205 4,718	
	TOTAL	67,610,194	08,962,737	72,487,652	

# YARR SPUE THROUGHOUT INDIA.

The grand totals of the quantities in various counts of yarn spun in the whole of India, including Native States, are given in the following table—

	1912–13.	1918-14	1914–15	
Ros. 1—10 , 11—50 , 21—50 , 21—40 Above 40 Wastes &c	187 003,274 869,388,228 158,836 811 19 841 700 2,937 880 660 955	130 782,746 861,908,914 166,994,607 19 712,896 2,698 686 678,598	180,978,122 345,988,826 160,330 374 18,701,101 2,232,668 475,216	
TOTAL	688 472 902	682,776 851	651,908,307	

In the early days of the textile industry the energies of the millowners were largely concentrated on the production of yarn both for the China market, and for the handlooms of India. The increasing competition of Japan in the China market, the growth of an indigenous industry be formed in the uncertainties introduced by the fluctuations in the China exchanges consequent on variations in the price of silver compelled the millowners to outstwate the Home market. The general tendency of recent years has been to spin higher counts of yarn importing American cotton for this purpose to supplement the Indian supply, to srect more looms, and to produce more dyed and blesched goods This practice has reached a higher development in Bombay than in other parts of India, and the Bombay Presidency produces nearly 87 per cent, of the cloth and Madinas about 8 per cent. Grey (umblesched) goods still represent nearly 77 per cent, of the whole production but dysing and bleaching are making rapid progress.

ARALYERI OF WOTER GOODS.

The following brief extract is taken from the statement of the quantity (in pounds and their equivalent in yards) and description of woven goods produced in all India, including Native

<del></del>	1912–18	1913–14.	1 <b>914</b> –15	
Grey and Bleached piece-goods		ľ		
Pounds	211,111 891	202,753,449	218 576 441	
Yards	914 191 236	872,445 720	680 501 618	
Coloured piece-goods—	!			
Pounds	71,828 062	68,829,264	61,067 187	
Yards	806,251,809	291,845,868	255,200,584	
Grey and coloured goods other than piece-		i		
goods—				
Pounds.	1 812,894	2 166,496	1 785,087	
Dozens	415 138	087,040	5 <b>12,48</b> 5	
Hoslery-				
Pounds	500 997	471 849	285 918	
Dozens	284,799	967 411	170,272	
Miscellaneous—				
Pounds	217 668	157 99 <b>2</b>	841 <b>,26</b> 8	
Total—	905 454 000	A54 930 FFO		
Pounds	285 491 002	274,388,550	277 606,900	
Yards	1,320 442,545	1,164,291,588	1 135,707 932	
Dozens	699 982	905,051	691,868	

# BOMBAT WOVER GOODS.

The output of woven goods during the three years in the Bombay Presidency was as follows.

(The weight in pounds represents the weight of all woven goods, the measure in yards represents the equivalent of the weight of the grey and noteured piece-goods.)

	1912-15	1913-14,	1914-15.	
Pounds	280,803,580	218 042,781	221,150,912	
Yards	1,001,664,978	941,679,694	930,580,296	
Dosens	485,076	761,305	900,180	

The grand totals for all indis are as follow -						
	1912-18	1918-14	1014-15			
Pounds Yards Dozens	285 4,1 002 1,220 442 545 699 932	274 388 550 1,164 29   588 935 051	277 005 900 1 185 707 952 691 858			

# TRADE OF THE YEAR.

TRADE OF THE YEAR.

The depression in the cotton trade which was noticeable before the close of 1913 com of the country of the control trade which timed into 1914 and four weeks before the outbreak of war the full effects of a prolonged of the control of the co 662 million 10s a decrease of '1 million 10s in 1913-1a. The frage with Asia is Turkey of 4 5 por cent, while that of cith 12 7 million declined very considerably from 74 million 10s llaceased by 3 million 10s or About 1 per 10s and Ra 35 is kinsto 44 million 10s and Ra cent as compared with the production of 1913-14 221 akins. The exports to the other chief A rough estimate of the value of Indian pro-A rough estimate of the value of Indian pro-duction in 1914-15 is Rs 304 crores for varn

duction in action and Rs 12 covers for wow.

And Rs 12 covers for wow.

Isdiag Production — The production of Indian weaving table consists chiefly of grey and bleached pletegoods — The exports of pleter at the recovery in production during the year. The production of gr y and bleached pletegoods increased by 8 million yands to 880 millions but that of coloured goods decreased by a bout \$80 million yands to \$25 millions. In the whole \$90 millions and \$80 million wands to \$25 millions. In the whole \$90 millions are \$90 million wands to \$25 millions and \$90 millions and \$90 millions are \$90 millions.

In the second of the seco 88 millon varies to 25.5 millions. In the whole of India 6.634 898 spindles are 10 to 180 looms were at work during 19 4 15 imploving on the ave ag 258 733 persons the share of Bombay being 4648 370 spindles 81 411 looms and 17 5 743 persons. India produced in 1914 15 652 million lbs of varn out of which 247 million lbs were consumed in the production of the 10 certifical blooms and 10 to 10 certifical blooms are consumed in the production of the 10 certifical blooms are received. 142 million lbs were exported by sea and land leaving about 268 million ibs which was probably consumed in the hand loom weaving. More varn is consumed in the country then is exported

# Export Trade

2010#	Yarn		Woven		
	Million	Re	Goods	Total.	
	l bs	(lakha)	R.s	B.s	
			(lakha)	(lak ha)	
1910-11	183	8 62	2, 39	11,01	
191 12	151	7 59	2 19	9, 8	
1912-13	204	9 92	2,28	12 90	
1913-14	198	9,53	2,29	19 12	
1914 15	184	6.28	1.78	8.01	

vory closely approximate to the previous vory closely approximate to the previous years figures. The United Kinsdom and Japan respectively took 454 980 lbs and 10 lbs against Jul 591 lbs and 79 220 lbs in

of 11 milion vards and Re 343 lakhs. The principal customers are Rast Africa the Straits Aden Cylon Persia Asiatic Turkey Slam and Egypt The tade with thing declined from 970 600 yards to 177 200 yards The othere as ern countr +s showed marked decreases namely the Straits by 8 million yards and Ra 12 lakes Cavion by 24 million yards and Ra The figures of the export trade are given below

Yarn

Woven

Millton Rs

Ibs (lakba)

Rs

10s (lakba)

1910-11 183 8 62 2.39 11,01 yards and 1, millton yards and 1, millton yards and 1, millton yards and 2, and 1, millton yards and 2, and 1, millton yards and 1, millton yards and 2, and 1, millton yards and 1, millton yards and 2, and 1, millton yards and 1, millton yards and 2, and 1, millton yards and 1, millton yards and 2, and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards respectively from 10 my ards respectively from 10 my ards and 1, millton yards respectively from 10 millton yards and 1, millton yards and 1, millton yards least than 10 my ards and 1, millton yards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards least than 10 my ards and 1, millton yards and 1, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards least than 2, millton yards and 1, millton yards least than 2, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards least than 2, lakba depression the increase amounting with a millton yards and 1, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards and 1, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards and 2, lakba depression the increase amounting with a millton yards and 1, millton yards and 1, millton yard

Progress of the Mill industry

The following statement shows the progress of the Mill industry in the whole of India.

	ot c	Number	of of	Average No of Hands Employed Daily	Approximate Quantity of Cotton Consumed.	
Year ending 80th June		of Spindles			Cwts.	Bales of 392 lbs.
1897	173	4 065 618	37 584	144 385	4 553 276	1 300 936
1808	185	4 259 "20	38 013	148 964	6 184,648	1 481 328
1899	188	4,728 333	39 069	162,106	J 863 165	1 875 190
1900	198	4 945 788	40 124	181 189	5 086 732	1 453 352
1901	193	5 006 936	41 180	172 889	4 731 090	1 851 740
1902	192	5 006 965	42 584	181 031	6 177 633	1,765 088
1903	192	5 0 <b>43 297</b>	44 092	181 899	6 087 690	1 739 340
1904	191	5 118 121	45 337	154 779	6 106 681	1 744 766
1905	197	5 163 486	50 139	195 277	6 577 354	1 879,244
1906	217	5 2 <sup>7</sup> 9 595	52,668	208 616	7 082 300	2,023 516
1907	324	5 ^33 2,5	58 438	205 696	6 930 595	1 980 170
1908	241	5 756 020	67 920	221 195	6 970 250	1 991 500
1909	298	6 055 231	~6 898	_38 924	7 381 500	2 109 000
1910	263	6 195 671	8,725	233 624	6 772 o35	1 985 010
1911	263	6 357 460	8ი ძა2	230 649	6 670 581	1 905 866
1912	268	6 463 929	88 951	249 637	7 175 357	2 050 102
1913	272	6,596 862	94,186	253 786	7,336 056	2,000,016
914*	2.1	6,778 895	104,179	260 276	7 300 961	2,143,126

# \* Year ending 81st August 1915.

# Comparative Figures

In Great Britain the United States of America and in India, there are 2 011 mills 1 449 mills and 272 mills respectively. The number of spindies in each country is as follows —5 93 crores and 67 lakits for india tooms 8 05 lakits, 6 96 lakits, and 104 000 for India the number of bands employed 6 27 lakits for Great Britain 3 18 lakits for America and 26 0 lakits for India cotton consumed in bales 42 84 lakits 59 lakits and 21 lakits Indian bales which saids of 1 mids. If these Indian bales which are 392 lbs. per bale are reduced to American bales which are 500 lbs. bales, the number of bales consumed in India would be about 20 per cent less. The wages earned by the workmen of each country are as follows —England 48 90 courts per annum, America 38 40 crores, India 6 53 crores. Out of her total production England 48 per cent. for home consumption.

# Wages.

The following comparison of wages has been propared by a Mill Proprietor Wages cames to 268 covers for Rombov which employs 1 10 lakh workers The Bombav Mills employs 1 very expensive staff of managers and overseers. To them and all other office and clerked staffs 26 lakhs were given so I tids sum is deducted the workman proper got 2 42 corors, or Rs 220 per annum per head. The English workman gets Rs 780 per annum and the American workman gets Rs 1,050 per annum I if he same test of profits and wages to the whole of India is applied then for 1912 the industry as a whole earned 6 34 crores and wages to workman proper would come to 90 crores and to the staff 63 lakhs, or a total of 6 53 crores to be divided amongs 2,43 lakh hands which are employed in India. The average rate of wages at this figure would work out at 2s. 286 per annum.

Bistomest of the amount in rapers of Excise duty realised from goods woven in the Cotton Milk in British India under the Cotton Dutles Act, II of 1896 also the amount of equivalent duty levied in the Native States in each year from 1895-95 to 1912-15

P	Bembay	Madras	Bengal	United Provinces of Agra and Outh (also Almer- Merwara)	Punjab	Central Provinces and Berar (a)
1885-96 (b) 1896-97 1897-98	196 9 14,480 9 60 600	86 300 86 470	69 4 <b>4</b> 80 1,180	4 259 45 870 44,350	13 270 14 460	50 040 79 260
1 <b>898-9</b> 9 1 <b>899-</b> 1900	11,26 390 10,95 236		900 2 523			84 969 88 109
1900-01 1901-08 1909-08 1948-94 1904-05	10 28 542 15 26 103 15,84 121 17 64,527 20 43 83°	54 139 67 818	5 088 5 863 6 605 10,908 11 929	69 284 74 028 89 189	4 379 8 051 1 104	84 978 1 10 140 1 30 620 1 56 871 1 61 368
1908-06 1908-07 1907-08 1908-09 1908-10		1 82 633 1 85 131 1 42 295		1 35 884 1 66 044 1 88 345	7 464 8 746 9 509	1 75 944 1 98,419
1910-11 1911-12 1918-13 1918-14 1914-15 (c)	42 17 878 48 27 698	7 48,186 1 6 0 048 2,06,862 2 18 166 1 79 569	48 681 81 709	1 84 658 2,11,547	10 862 17 971 22 968	2 52,415 2 71 883 3 00 919

	Total Britis	h India.	Native States	Grand T	otal.
	Gross duty	Ne⊅dutv	Gross duty	Gross duty	Nut daty
1805-06 (b)	\$ 695	5 635	244	879 ر	5 879
1896-97	11,23 440	10 91 690	18 459		11 10 049
1897-98	11 06 829	11 38 950	47 885	12 14 164	11 86 786
18 <b>96-9</b> 9	13 75 119	13 53 120	52,186	142, 305	14 05 806
<b>1899-19</b> 00	18 39 812	13 09 514	40 937	18 80 749	18 50 451
1900-01	12 16 867	11 62 947	48 449	12,64 756	12 11 596
1901-02	17 69 908	17 16 836	61 171		17 77 966
1 <b>902-</b> 03	18 66 213	18 25 469	65 541	19 31 754	18 91 010
1908-04	20 77 449	20 36 104	09 061	21 36 510	
1 <b>904-0</b> 5	23 81 825	23 33 696	67 820	24,49 145	24 06 97
1995-06	27 06 784	26 71,061	83 455	27 90,239	27.54.510
1906-07	29 00 957	28 64 202	81 976	29 82,671	-9 46 15
1 <b>90</b> 7-08	88 99 717	33 55 946	97 400	34 97 216	84.63 44
<b>1908~09</b>	35 48 778	34 93 480	1 14 498	36 58 276	36 12,97
1 <b>000-</b> 10	40 06 193	39 61 020	1 37 899	41 43 802	40 94 731
<b>#10-</b> 11	42,26 575	1 75 878	1,75,878	44.56 120	44 G1 "D1
911-12	48 79 478	48 04,492	1,82,479	50 61 957	
415-15	56,17 969	56,78 687	2 21 178		7 07 74
##3-14	54,39 043	53 95 014	2,88 893		56 88 40
914-15	49 84,162	48 79 385	2,88,160		61 12 54

<sup>44)</sup> From the 1st October 1902 from which date the province was leased in perpetuity to the British Government. (b) For Fobruary and Marcis 1804. (c) Provisional.

### COTTON FIRES IN BOMBAY

The Bombay Cotton Green has been strasted at Colaba since 1844 and occupies an area of about 1½ miles square. On it each dealer rents a plot which is known as his jothar. The cotton season opens at the Divail, in October or Nov amber, when the dealers bring to their jothar the betanes of the previous crop which has been stored throughout the monsoon, and from that date until the monsoon breaks in the following June the Cotton Green is crowded with bales and is the scene of great activity. It has long been recognised that the Green is inconvenient both in regard to its situation and its limited size and arrangements for its transfer have been made.

In recent years there have been several fir won the Green, culminating in a long series in 1914 when the damage done by fire surpassed all records. It is estimated that 160 000 bales valued at Rs 16500 000 were in 1914 sflected by fire Allowing for 75 000 damaged bales (valued at Rs 82,00 000) which were sold by Insurance Companies the loss works out as follows 75 000 bales totally burnt or reader ed useless for spinning purposes valued at Rs 83,00 000

But the number of fires in the different years varies greatly In 1904 there was only one and the same in 1905 but in 1905 the number was thirty-eight coming to more recent years we find one in 1911 there in 1912, thirteen in 1913, forty three in 1914 and seven in 1915. The fires are generally confined to a particular area of the Green, where though the public is not excluded there is a regular system of watchmen.

Committee of Inquiry —The disastrons fires of 1914 led to the appointment by the Govern ment of Bombay of a Committee to Inquire into the causes of the outbreaks of fire on the Cotton Green and to consider and recommend what preventive and protective measures should be adopted to guard against such outbreaks in future

A Government Resolution, published in November 1914 summarises the suggestions of that Committee as follows—

- The removal of the Cotton Green from Colaba to some more spacious better ar ranged better drained and more remote site
- (ii) The restriction of the height of cotton stacks, with proper alleys lanes or roads between the various stacks and lather.
- (iii) The storage of cotton in godowns which are properly built
- (iv) The organization and maintenance by the octton merchants and Insurance Companies jointly of a better staff for guarding the Green
- (v) The provision of an adequate number of hydrants and full pressure of water throughout the 24 hours.
- (vi) Efforts by Insurance Companies to safeguard as closely as possible their own in terests after a fire has occurred.

(vii) The institution of a tribunal or court of enquiry of the nature referred to in the preceding paragraph.

Fraudalent Incendiariam.—Government accepted the committees conclusion that the fires of 1914 were due to wilful and fraudulent incendiariam, the motive for which it to be found in the exceptional conditions which characterized the cotion market during that season. In the absence of a definite due, the Committee found itself unable to determine upon which of the averal classes which stood to benefit by the destruction of large stocks of cotion the cul publity for these configurations lay

The Resolution also stated that, pending the completion of the Bown Reclamation, the Port Trust are making arrangements at a coat of approximately three lakins to lay out a suitable storage ground near the reclamation. This in conjunction with the existing Cotton Green will admit of even a large crop being stored in conditions which will not reproduce the dangerous features which characterized the storing of last years crop. The insurance companies have already taken action, by the imposition of almost prohibitive rates where those precautions are not observed to compel the restriction of the height of stacks of bales and the provision of a liberal allowance of free space between adjoining stacks. The provision of the height of stacks of bales and the movision of a liberal allowance of free space between adjoining stacks. The provision of the additional storage ares referred to above will racilitate the adoption of these very necessary safeguards.

The annual report on the Bombay fity Police for 1914 states that a thorough examination of the books of various companies has established beyond a shadow of doubt that considerable fortunes have been made over the fires by those in the cotton trade as a result of a system of fraud in the dealing mixing, and classification of cotton. Later investigation, however is believed to have resulted in a considerable modification of that statement and of the theory of connected branchises.

of the theory of concerted incentiary crime
Artificial Damping.—The attention of the
International Cotton Committee, under the
presidency of Sir Charles Macars, was in 1914
drawn to the subject of the cotton fires. The
two representatives of India on the Committee,
suggested the possibility that the artifacial
damping of the cotton might be a contributory
cause to the outbreaks. The point was made
that the International Federation during the
ten years of their existence have waged stream
ons warfare against the artificial damping of
cotton and have heard from Lord Greve, the
Secretary of State for India, that the practice
was one which was frandulent and should be mes
by penal legislation. A strong opinion was
expressed in favour of the Government of India
passing an Act in accordance with the terms
of Lord Grewe's apsect. M Berger, the representative of France stated that since the
sellers of a consignment of cotton which contained more than 34 per cent. of moisters were
compelled by the Brench law courts to make
good the excess of meisture to the firm to whom

# The Jute Industry.

only a monopoly of Scotimen from Dundes the industry Itself owes its inception to an Ragilshman. The founder of the industry was George Aciand an Englishman who began was recorge actand an anguishman who began life as a midshipman in the navy, and was for some years in the last india Marine Ser vice He quitted this service while still a young vice He quitted this service white still a young iman and engaged in commercial pursuits in Cerion where he was successful Later on he turned his attention to Bengal and arriving in Calcutta about 1858 he got into touch with the management of the paper sorts, then at Serampore where experiments. works, then at cerampore where experiments were being tried with country grasses and fibre plants to improve the quality or cheapen the manufacture of paper. This seems to have suggested to Adland the manufacture of rhea, and in 1854 he proceeded to England, with a order to manufacture goods from that material During this trip be visited Dundee and while there Mr John Rerr of Louglas Foundry augmented to him the importing of machinery inggested to him the importing of machinery for Bengal where the jute comes from and spin it there. This suggestion bore fruit for shortly afterwards Asland placed orders with Kerr for a few systems of proparing and and machinery and returned to India the same year accompanied by his two sons and a few Dundre mechanics who were to as and 8 100 Designed measures was were as a state than in erecting and operating the first jute mill in Benzal This as has been stated was at Bishra the site of the present Welling ton milla, near Serampore, and here, in 1855 the first machine spun jute yarns were made As not infrequently happens the ploneer got very little out of his venture. After several ups and downs the Acland interest in the ups and downs the Acland interest in the Rishts mill ceased in 1807, and the company which Acland had formed in 1854 was wound up in 1868

Power looms.—The pioneer's example was followed by Mr George Henderson of that ilk and firm, and in 1859 the Borner Jute to was launched under his suspices To this ilk and firm, and in 1800 the hopmen since to was knined under his auspieces. To this company is due the credit of introducing the gover hoom for jute cloth. Unhampered by the financial difficulties which had burdened the Aciands, the Borneo Jute Co made rapid the Actands, the formeo Juce Co made rapid progress, doubling their works in 1864 and eleating their capital twice over In 1872 the milis were turned into a limited liability company the present "Barnagore Jute Manu lacturing Co Ld Four other milis followed in succession—Gourhore Sernjgunge, and India Jute Mills.

Considering its present dimensions, the jute industry of Bengal is of very recent origin. The first jute mill in Bengal was started at Rishrs in 1855 and the first power loom was introduced in 1850. The original outtue was 8 tons per day It is now 8,000 tons per day it is now clared which seemed to justify the enormous capital at which the company was taken over from the Borneo Company and shares tunched 68 per cent, premium. The dividend for the first year, ending Argust 18.2, was 25 per cent for 1874 20 per cent, and for 1875 10 per cent. Then came a change. The investing public had forgotten the effect of the Port. Cauning bubble and the condition of the jute industry in 1872 73 seeming to offer a better return than coal or ten both of which had just enjoyed a boom it was only necessary to issue a prospectur of a jute mill to have all the shares snapped up in the course of an after noon

In 1872-73 three new companies were floated locally—the Fort Gloster Budge Budge and Sibpore and two Home companies the Champ Bibpore and two Home companies the Champ dany and Samungger all of whith commenced operations in 1874. In 1874—5 eight other mills were launched—the Howrah Origital (now Union) Asiatic (now Soorah) cflvc Bengal Pressing and Manufacturing to (now the Beilighptath Surnagore branch milli Rustomjee (now the Central) Ganger (regis Rustomjee (now the Central) Gangre (regis tered in England) and Hastings owned by Messrs Rirkmvre Bros., of Greenock lame— in all thirteen new companies, coming on all of a heap and swelling the total looms from 12.0 up to 3500 This was too much of a of a feep and swelling the total looms from 12.0 up to \$500 This was too much of a strain for the new industry and for the next tan years all the nills had a severe struggle The older ones all survived the ordeal, but topr of the new concerns—the Ortenial, the topr of the Bengal Preesing and Manufacturing Co and the Rustomjee—became morbund to appear again later on under new names and management Fort Gloster also suffered hadly badly

Between 1875 and 1882 only one new mill was put up This was Kamsinatty promoted by Mesars Jardine Skinner & Co, which came into being in 1877 as the result of Dr. Barry's visit to Calcutta in 1876 when he transferred the agency of the Couripore Co from Messrs Jardine Skinner & to to his own firm. This mill, together with additions made by some of the other mills brought the total fooms up to 5 150 in 1882. By the end of 1986 the total was further augmented by the Hooghly total was further augmented by the Hoogany Titaghur Victoria and Kashkarrah mills bringing the number of looms at work up to 8 700 From this period on to 1894 no new mills came into existence except the Calcutta Twist Mill with 2,460 spindles since merged into the Weillington branch of the Champdany Co Between 1896 and 1900 the following new mile were started—the Gordon Twist Mill with 1 900 spindles (now acquired by Anglo India) Khardah Gondolpars (French owned) Alliance Arathoon Anglo India Standard, National Delta (which absorbed the Seraj gunge) and the Kinnisom A hall of four years witnessed large extensions to the existing mills. From 1868 to 1878" writes Mr David gunge) and the Kinnison A lail of four years walkee in "The Rousence of Jute." the witnessed large extensions to the existing mills, five sells excepting the Riskra mili simply after which came the following series of new

mills, besides further heavy extensions—Dal housie, Alexandria, Naihati, Lawrence Re liance, Belvedere Auckland Kelvin and North brook

### Progress of the Industry

ages from the earliest year for which complete information is available with actuals for the last five years and the figures in brackets represent the variations for each period taking the average of the quinquenium from 1879-30 to 1838-34 as 100 it will be seen that the number of looms and spindles in operation has increased THE record of the jute industry may well be said to be one of uninterrupted progress. The number of mills at work or the amount of following statement shews quinquennial aver nominal capital employed

Numbe		her of	Nominal		Number (in thousands) of					
<del></del>	mıli	s at	Capital (in lakhs of Rs )			rsons loyed.	Loom	15.	Sph	ıdles
1379-80 to 1882 84 1884-85 to 1888 89		100) 114)		7 (100) 6 (126)		8 (100) 7 (136)	ى د 7	5 (100) (127)	88 198	(100 4 (157
1889-90 to 1893 94 1894-96 to 1898 99		(124) 148)		6 (149) 1 (198)		3 (166) , (223)	8 11 7	(151) (219)		6 (196 6 (278
1899-1900 to 1903-04	36 (	(171)	080	(251)	114	3 (294)	16 5	2 (295)	334	6 (380
1904-05 to 1908 09	48 (	(219)	960	(Boa)	165	(425)	24 8	3 (451)	<b>61</b> 0	5 (580
1909-10	60 (	(286)	1 151	(425)	204	1 (528)	31 4	(571)	645	9 (734
1910 11	54 (	(276)	1 150	(425)	216	4 (558)	33 :	l (80 <b>2</b> )	682	o (776
1911 12	50 (	(281)	1 105	(441)	201	3 (519)	32 9	(398)	677	5 (770
1912-15	61 (	290)	1.330	ه (442) د	204	(623)	34	(618)	708	7 (805
1913 14	64	(30a)	1,309	(486)	216	(557)	36	(654)	744	L (846

The production of the mills has increased to a still greater extent. The following figures show the expect of jute manufactures and the declared values for the quinquennial periods

		Jute ma	un factur	<del>"5</del>		
· <del>-</del>	mıll	y bagain lons of mber		ny cloths in Illions of yards	Valu lakhs o	
1879-80 to 1883-84 1884-85 to 1888-80	54 1	(109) (140)	4 15		124 9 162 9	(100) (180)
1889-90 to 1893 94 1894-96 to 1498-99	111 3 171 2		41 182	(99 <b>2</b> ) (4,138 <b>)</b>	289 S 518	(232) (415)
1899-1900 to 1903-04	2∪6 o	(3,6)	42" 5	(9 709)	826 5	(662)
1904-05 to 1908-09	25, 8	(469)	; 69 <del>8</del>	(15 864)	1 442 7	(1 154)
1909 10	364 4	(664)	940 :	l (21 366)	1 709 6	(1 360)
1910-11	160 8	(857)	955 :	3 (21 711)	1 699 4	(1 361)
1911 12	289 8	(528)	871 8	(19 807)	1 600 8	(1.282)
1912 13	311 7	(568)	1 021 4	3 (23 <b>223)</b>	2,287 1	(1,881
1913 14	368 8	(272)	1,061	2 (24 118)	2 827 3	(2 284)

Typ to the last enhanced by therease from year for year though the improvement was not so rapid as in the case of manufactures. A slight forecase in the case of manufactures and the fall was necessarily as a second in 1912.13. The following are the quinquants average prices and further to Ba 54-12-0 in 1912.13. The following are the quinquants average prices and further to Ba 54-12-0 in 1912.13. The following are the quinquants average prices and further to Ba 54-12-0 in 1912.13. The following are the quinquants average prices and further to Case. 400 pounds.) of ordinary manufactures. A slight forecase and the fall was necess		J		
1870 80 to 1888-84   23 8 0 (100)	to year though the impro	increases from year		ordinary per bale of 400 lbs.
as compared with the figures for the preceding quantum mills of core in 1911 12 which was accentrated in 1912 13 — 1889 80 to 1898-99 30 12 0 (131) 1890-90 to 1893-94 7 5 (100) 1894-95 to 1898-99 12 3 (164) 1890-10 0 1893-04 10 (138) 1890-10 0 1893-04 12 7 (160) 1890-10 31 0 0 (132) 1890-100 to 1893-04 12 7 (160) 1890-10 1893-04 12 7 (160) 1890-10 1893-04 12 7 (160) 1890-10 1893-04 12 7 (160) 1890-10 1893-04 12 7 (160) 1911 12 16 2 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 1911 12 (216) 19	TAPPE 45 In the case of ma	<b>contactures.</b> A slight	1879 80 to 1888-84	
1888 60 to 1898 94   32 8 8 (189)   1894 95 to 1898 99   30 12 0 (181)   1894 95 to 1898 99   30 12 0 (181)   1894 95 to 1898 99   30 12 0 (181)   1894 95 to 1898 99   30 12 0 (182)   1894 95 to 1898 99   30 10 0 (182)   1894 95 to	as compared with the figur	es for the preceding	1 184 85 to 1888-89	23 3 2 (99)
1870-80 to 1883-84   7.5   (100)   1894-85 to 1888-89   8.9   (119)   1894-85 to 1888-89   8.9   (119)   1894-95 to 1898-99   12.8   (164)   1904-05 to 1908-01   41.8   0.0   (138)   1904-05 to 1908-02   15.00   (201)   1904-05 to 1908-03   15.00   (201)   1904-05 to 1908-04   12.7   (160)   1901-11   12.7   (160)   1901-12   12.7   (160)   1901-12   12.7   (160)   1901-12   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.7   (160)   1901-13   12.8   (160)   1				32 6 5 (138)
Millions of evit.   1870-80 to 1888-84   7 5   (100)   1894-05 to 1808-03   44 13 6 (191)   1894-05 to 1808-09   12 3 (164)   1910-11   41 8 0 (177)   1894-05 to 1808-09   12 3 (164)   1910-11   41 8 0 (177)   1910-11   12 7 (169)   1910-11   12 7 (169)   1910-11   12 7 (169)   1911-12   16 2 (216)   1912-18   17 5 (238)   1911-12   1894-05 to 1808-09   1911-12   16 2 (216)   1912-18   17 5 (238)   1911-12   1894-05 to 1808-09   1911-12   1911-13   1910-11   1910-14   1910-15   1910-16   1910-	in 1911 12 which was acren	tusted in 1912-13		30 12 0 (131)
1870-80 to 1888-84 7 5 (100) 1894-85 to 1888-89 8 9 (119) 1894-85 to 1888-89 10 to 1898-99 12 3 (164) 190-11 41 8 0 (177) 1899-1900 to 1898-99 12 3 (164) 1911-12 1 1 4 0 (218) 190-10 1 1 1 2 7 (169) 1900-10 1 1 6 2 (216) 1911-12 1 1 1 2 1 6 2 (216) 1911-12 1 1 1 2 1 6 2 (216) 1911-13 1 1 2 1 6 2 (216) 1911-13 1 1 2 1 6 2 (216) 1911-13 1 1 2 1 6 2 (216) 1911-14 1 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 7 (169) 1911-15 1 1 2 (218) 1 1 2 (218) 1 1 2 (218) 1 1 2 (218) 1 1 2 (218) 1 1 2 (218) 1 2 (218) 1 2 (218) 1 2 (218)			1899 1900 to 1903-04	
1894-85 to 1888-89	1879-80 to 1888-84		1904-05 to 1908-03	· ·
1899 90 to 1893 94   10   (138)   1894 95 to 1898-99   12 8   (164)   1899-1900 to 1893-94   12 7   (169)   1994-95 to 1998-09   15 00   (201)   1994-95 to 1998-09   15 00   (201)   1994-95 to 1998-09   15 00   (201)   1995-11   12 7   (169)   1911-12   16 2   (216)   1912-15   17 5   (238)   1913-14   17 5   (238)   1913-14   17 5   (238)   1913-14   17 5   (238)   1913-15   17 5   (238)   1913-15   17 5   (238)   1913-15   17 5   (238)   1913-15   17 5   (238)   1913-15   17 5   (238)   1913-15   17 5   (238)   1913-15   17 5   (238)   1913-15   1834-85 to 1888-89   8 0 7   (77)   1889-90 to 1883 94   10 7   (11 000)   10 100   10			1400-16	
1894 65 to 1898-99			1010-11	
1899-1900 to 1908-04   12 7 (160)   1904-05 to 1908-09   15 00 (201)   1909-10   14 8 (195)   1910-11   12 7 (160)   1911 12   16 2 (216)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   17 5 (233)   1912-18   1834-85 to 1838-89   10 7 11 (100)   1913 14   1.4 (205)   1834-85 to 1838-89   10 7 (17) (100)   1834-85 to 1838-89   10 7 (17) (100)   1834-85 to 1838-89   10 7 (17) (100)   1846 for fall was necertified to 38 4 and Hs 31 per bale respectively   In 1910 11 the price price having declined to 38 4 and Hs 31 per bale respectively   In 1910 11 the price price having declined to 38 4 and Hs 31 per bale respectively   In 1910 11 the price price having declined to 38 4 and Hs 31 per bale respectively   In 1910 11 the price price having are the quinquential average prices of gunay cloth have bren as follows — Price of Hessian cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs a point of the same cloth 1040x 40° per 100 yrus   Rs		• •	1 1011 17	
1904-06 to 1908-09   15 09 (201   1918-14   76 12 0 (327)   1909-10   14 8 (195)   1910-11   12 7 (160)   1911 12   16 2 (216)   1911 12   16 2 (216)   1912-18   17 6 (233)   1918-14   10 4 (205)   1919-14   10 4 (205)   1834-85 to 1838-89   10 7 11 (100)   1834-85 to 1838-89   10 7 (27)   1910 10 100 100 100 100 100 100 100 100			1019 19	, ,
The average prices of gunay cloth have per nas follows   Price of Hessian cloth have per nas follows   Price of Hessian cloth   1911   12   16 2   (216)     1879-80 to 1883 84   10 7 11   (100)   1913   14   1 1 4   (205)     1894-85 to 1888-89   8 0 7 (77)   1894-85 to 1888-89   10 7 11   (100)   1894-85 to 1888-89   10 7 12   (100)   10 2 10   (100)   10 2			1918-14	, ,
1910-11   12 7 (169)   Price of Hessian cloth   1911 12   16 2 (216)   Price of Hessian cloth   1912-15   Price of Faw June   16 6 (203)   1912-15   Price of Faw June   16 6 (203)   184	1909-10	•	The average prices	of gunny cloth have
1911 12 16 2 (216) RE B B 10 10 7 11 (100)  1912 18 17 6 (233) 1379-80 to 1883 84 10 7 11 (100)  1913 14 1 1 4 (205) 1889-89 8 0 7 (77)  The price of raw intereached its highest point in 1906 07 the rate being Rs 65 per bale and the full was accentinated in 1989-90 and 1890-189 to 1888-99 9 11 8 (98) 100-100 to 1905-06 10 2 10 (97) the price having declined to 38 4 and Rs 31 per bale respectively In 1910 11 the price rose again to Ea. 41-8-0, to Rs. 51 4-9 in 1911 12 and further to Rs. 54-12-0 in 1912 13 The following are the quinquentials average mices 1910-11 9 5 6 (89) per bale (400 pounds) of ordinary intereal calculated to 1912 11 14 0 (118) per bale (400 pounds) of ordinary intereal calculated to 1912 11 14 0 (118) per bale (400 pounds) of ordinary intereal calculated to 1912 11 14 0 (118) per bale (400 pounds) of ordinary intereal calculated to 1912 12 11 14 0 (118) per bale (400 pounds) of ordinary intereal calculated to 1912 13 16 6 0 (156)	1010-11		Dren up tonous —	
1912-18	1911 12			
1913 14  1.0 4 (205)  The Price of raw jute leached its highest point in 1906 07 the rate being Rs 35 per bale and the full was necessitated in 1983-90 and 1909-18 to 1893-94 10 5 6 (39) 1894-95 to 1898-99 9 11 8 (98) 1894-95 to 1898-95 to 1898-99 9 11 8 (98) 1894-95 to 1898-95 to 1898-99 9 11 8 (98) 1894-95 to 1898-95 to 1898-95 to 1898-9	1912-18	17 5 (239	1879-80 to 1883 84	-
point in 1906 07 the rate being Rs 85 per bale, in 1907-08 it dropped to Rs 42 per bale and the full was accentizated in 1908-09 and 1909-10 1899-1900 to 1903-04 10 2 10 (97) the price having declined to 38 4 and Rs 31 per bale respectively In 1910-11 the price per bale respectively In 1910-11 the price case again to Es. 41-8-0, to Rs. 51 4-0 in 1911-12 1909-10 9 3 6 (88) and further to Rs 54-12-0 in 1912-13 The 1910-11 9 5 6 (89) following are the quinquennist average prices 1911-12 11 14 0 (118) per bale (400 pounds) of ordinary inter calculated from the prices current published by the Bensel 1912-13 16 6 0 (156)	1919 14	1.4 (205		•
in 1907-08 it dropped to Bm 42 per bale and the full was necessitated in 1983-09 and 1909-10 1899-1900 to 1903-04 10 2 10 (97) the price having declined to 38 4 and Bs 31 per bale respectively. In 1910 11 the price rose again to Em. 41-8-0, to Em. 51 4-0 in 1912 13 The following are the quinquennish average prices 1910-11 9 5 6 (88) rollowing are the quinquennish average prices 1911 12 11 14 0 (118) per bale (400 pounds) of ordinary inter calculated from the prices current published by the Benezia 1912-13 16 6 0 (156)	The Price of raw jute	reached its highest	1889 90 to 1893 94	10 6 6 (99)
the fall was necessitisted in 1908-09 and 1909-10   1899-1900 to 1903-04   10   2   10   (97)   the price having declined to 33 4 and Rs 31   1904-0e to 1906-09   11   14   1112, per bale respectively in 1910 11 the price   1904-0e to 1906-09   10   2   10   (97)   rose again to Ea. 41-8-0, to His. 51 4-0 in 1911 12   1909-10   9   3   6   (88)   and further to Rs 54-12-0 in 1912 12   11   14   0   (118)   per bale (400) pounds) of ordinary intercalculated   1912-13   16   6   0   (156)	in 1907-08 it dromped to I	aing Ba 65 per bate. Ra 42 per bate and	1894-95 to 1898-99	, ,
per bale respectively. In 1910 11 the price 1809-10 9 3 6 (88) rose again to Ea 41-8-0, to Ea 51 4-0 in 1911 12 1910-11 9 5 6 (89) and further to Ea 54-12-0 in 1912 13 The 1910-11 9 5 6 (89) following are the quinquential average prices 1911 12 11 14 0 (118) per bale (400 pounds) of ordinary into calculated from the prices current published by the Bengal 1912-13 16 6 0 (156)	the fall was accentuated in :	1908-09 and 1909-10	1899-1900 to 1903-04	
From any to Ex. 41-8-0, to Ex. 51 4-0 in 1911 12   1910-11 9 5 6 (68) and further to Ex 54-12-0 in 1912 13 The 1910-11 9 5 6 (68) following are the quinquennial average prices   1911 12 11 14 0 (118) per bale (400 pounds) of ordinary intercalculated from the prices current published by the Except   1912-13 16 6 0 (156)			2002 00 11 0100 01	
and further to Rs 54-12-0 in 1912-13. The 1910-11			TDOB-10	
per bale (400 pounds) of ordinary into calculated 1912-13 16 6 0 (156) from the prices current published by the Bengal	and further to Rs 54-12-	0 in 1912 13 The	1910-11	( /
from the prices current published by the Bengal   1912-19				
Chamber of Commerce — 191 14 — 1 0 0 (162)				
				1 0 0 (162)

The 1915 crop. —During the past year much damage was done to the crop by floods and there was an estimated decrease in the average under jute mainly in Eastern Bringal of 934 421 acros. The Inal Equivarion to the three provinces we knot so follows —

	BALES		
PHOVING P	1014	1915	Decree
Bengal-	i — —	- ·	
Western	1 187 098	1 051 299	286 296
Vorthern	2 734 433	1 975 1 39	7.58 894
Restern	5 235 88	479 128	1 768 750
Cooch Behar	13,247	72,935	62 909
What and Orissa (including Kopal)	780 78~	697 873	87 914
A 580 M	JD7 463	167 (59	150 004
Total	10 331 305	7 428 798	\$ 102 772

	Estimated acreage	e under Juke	
Name of province	1914	1916	<b>Decrease</b>
Bengal			<del></del>
Westero	467 199	297 369	169,830
Northern	805 511	591,365	264 126
Rastern	1,549 894	1,150 403	399 492
Cooch Bohar	44,410	2" 556	16 857
Bihar apd Orlssa	363 1 <b>2</b> 0	215 339	114 781
Assami	102,300	<b>33 100</b>	19,200
Total	J 349 437	2 365 151	984,786

The Jute Mills Association now one of the most important if not the most important, of the bodies affiliated to the Bengal Chamber of Commerce, was started under the following circumstances —In 1886 the existing mills finding that in spite of the constant opening up of new markets, working results were not involvable, came to an agreement, with the late 8 E J Clarke, Secretary to the Chamber of Commerce, as trustee to work short time. The only mills which stood out. snort time The only mills which stood out of this arrangement were the Hooghly and Seralgunge. The first agreement for an menths dating from 15th February 1886 was subsequently renewed at intervals without a break for five years up to February 15 1891 without The state of the market at the time of the renewals dictated the extent of the short time. which varied throughout the five years between 4 days a week, 9 days a fortaight and 5 days a week Besides short time 10 per 10 per cent of the sacking looms were shut down for a short period in 1890 An important feature of this agreement was a mutual undertaking by the parties not to increase their spinning power during the currency of the agreement, only a few exceptions being made in the case of a few incomplete new mills

Working days --With the introduction of the electric light into the mills in 1896 the working day was increased to 15 hours, Satur-days included, which involved an additional days mounded, which involved an additional amount of cleaning and repeting work on Sundays. In order to indimise this Sunday work and give them a free Sunday an agitation was got up in 1897 by the Mill European assistants to have the engines stopped at 2 or 3 p in on Saturdays The local Government took the matter up but their action was to extract the state of the sundays are successed. ment took the matter up out their sound went no further than applying moral sussion backed by a somowhat half tearted threat The Mill association held meetings to consider the question and the members were practically agreed as to the utility of early cloting on Saturdays, but were two could not trust on anticonys, but says are could not trust themselves to carry it out without legislation Unfortunately the Government of India re-fused to sanction the passing of a Resolution by Undertunately the Government of India rejute and jute goods had until then been ruling fused to senction the passing of a Resolution by had not only been to curtail the consumption the provincial Government under the Resolution of jute goods, but also to bring audstribute act and the matter was dropped. Only a year for jute, such as textilose and textility within

or two ago the Jute Mills Association in des or two ago the Jule Mills Association in case pair brought out an American business expert Mr J H Parks to advise them on the possibility of forming a jute trust with a view to exercising some control over the production and price of jute Mr Parks came, and wrote a report which the Association promptly pigeon holed because the slump was over and the demand was so prodigious that there was no need to worry about the price of jute

An Association styled the European Jute Dealers Association, has lately been formed in Calcutta to promote and to guard the com mon interests of its members as dealers in jute for local consumption. The members are balers and brokers of jute for sale to the jute mills in and around taloutta. The first amual general meeting was held on the lat October general meeting was held on the let October when a committee consisting of the following gentlemon was elected for the year 1915-16 namely — Messis R L B Gall, C D Stewart, P L Suttle G S Alexander G Morgan and A. Tosh The Committee have since elected Mr George Morgan to be the Chairman of the Association for the year

Effect of the War -- The official review of the trade of India in 1914-15 says - It will be remembered that among the circumstances which added materially to the rapid development of the world's jute industry were the Crimean war in 1854-56 and the (3vd) war in America in 1861-63. It was anticipated on the outbreak of war that history would repeat itself, and that there would be a large demand for manufactured jute especially for military and transport purposes Thi anticipation was fulfilled and by the end of the year under was tunned and by the run of the year under review Casutta jute mills were never in a more prosperous state. The short time agreement among the Bengal mills to work five days a week from April 1914 came to a conclusion at the end of September. From the 3rd Ceto-ber the mills commenced a six day week some of them on the full double shift of 181 hours and others on 11 hours single shift. The result of the exceptionally high level at which raw

the region of possibility When, however, the price of the raw material reached its lowest level, most of the mills took advantage of the situation, and secured large stooks of cheap jute The demand for manufactured goods during the months of August and September was not active and as a consequence the mills was not settive and as a consequence the mills were unable to sell goods against their purchases. But later on the mills sold against their purchases at a large profit especially after October owing to the fact that during the latter half of the year a large amount of jute goods were manufactured to an extent which had never been previously known in India, and it is likely that as long as the war continues the mills here will be kept fully employed. The extent of the jute industry and its importance to india may be gathered from the figures of the export of the manufactured articles.

		1913-14	1914 18
Bags	No rullions	89ن	398
Cloth	vards	1 061	1 057
Rope	1,000 cwts	83	64
Value of	Inte goods Bs	(lakhs) 2827	2082

During the year the exports amounted to nearly Rs 25 crores or £17 millions, represent ing about 58 per cent of the total value of exports of the articles wholly or mainly manuexports of the articles wholly or mainly manufactured and about 15 per cent of the total exports of Indian merchandus. In the prewar period the exports amounted to nearly Rs 9 crores (25 millions) or 35 per cent of the year's trade in jute manufactures against Rs 84 crores (25 millions) in the corresponding period of 1918 14. In the war period the value fell from Rs 20 crores (£14 millions, the decline beath due not to a mallet volume in trade being due not to a smaller volume in trade but to a great decrease in the price of finished but to a great decrease in the price of finished goods in sympathy with lower prices of the raw material. The exports of grany bags and gunav cloth amounted to 598 mill ons and 1057 million yards re pectively against 580 millions and 1061 million jards in 1913 14, the figures for the war period. being respectively 26, in lilon and "lo million yards sgainet 243 millions and 742 million yards in the corresponding period of 1913 14

#### GLASS AND GLASSWARE.

The total value of glass and glassware imported into India in 1914-15 fell by Rs 117 lakha to Bs 142 lakes about 58 per cent of which trade was effected in the pre-war period. Hither to Austria Hangary has stood first among the expo ting countries and Germany has been time expo ung tountries and dermany has been second. During the year the value of Japanese imports of glass into India has increased by Rs. 32 takha to Rs. 191 lakha.

Glasse manufacture in India consists of two well-defined classes the indigenous house hold industry and the modern factory industry The indigenous household industry which is represented in all parts of the country is chiefly concerned with the manufacture of cheap bangles. Glass manufacture is India on the modern factory system has lithen to been an uphill struggle against great difficulties. In Bengal, the Pioneer Glass Manufacturing company limited, of Titagarh, started work in 1890 and the Bengal Glass Company of Sode par in 1898. They ceased working in 899 and 1902, respectively. The Madras Glass Wacks Jourded in 1809 has ceased work though it is bounded in 1809 has ceased work though it is bounded in 1809 has ceased work though it is bounded to restart it. 4 factory started in The indigenous household industry which is it is hoped to restart it. A factory started in Hyderabad also proved a failure and its plant was taken over by the Glass Works at Ambala The Himslayan Glass Works at Rajpur in the Dehra Dun district closed after three or four years' working in 1908, but was restarted later under new management. Finally the Upper India Glass Works at Ambala, which was started

ture of bangle glass, and in this line it is interesting to record that the bangle glass of Ambaia and hirozabad has succeeded in capturing the market, whereas formerly large quantities of glass used to be imported from Belgium for this purpose At the present time one or two glass factories only are working in India, and a new tactory the Westurn India Glass Works Limited of Bombay is about to start work.

Records of the earlier ventures have shown that the indures in some cases were due in part at least to preventible causes prominent among which were (1) the lack of sufficient find capital and the consequent inability of the companies to meet their heavy uitial capeness and (a) monperience and lack or technical knowledge on the part of the promo-But there are also certain real and special ters ters But there are also certain real and special difficulties with glass manufacturers in India have to contend assanst. The practical difficulties are—(1) Fire temperature of India in the bot weather (2) The difficulty of obtaining skilled labour for glass blowing. Both foreign blowers and men from local industries such as Nagina have been tried but neither have been entirely gattsfactory (3) There are consider to the technical difficulties, such as the supply of a suitable quality of sand and a suitable alkall. With regard to the alkall local sources such as the res of Northern India, have not yet given remits adequate for the manufacture of high class glassware At present imported buarbonate of sods is mainly used As this is imported from England there is no reason to by Indian capitalists in 1995, was at first a imported from England there is no reason to fattuse. Since 1993, however it has been much a satisfact any shortage of the supply it is more successful. It established itself farmly in also probable that soda company in the grant by specialising in the manufact.

# The Handloom Weavers.

### By F Booth Tucker

Next to agriculturists the handloom weavers of India rank second in numerical importance among her skilled industrial workers. In round igures about 11 million souls are dependent on this industry From a position of pros perity and even affinence they have suddenly been reduced through no fault of their own but by circumstances over which they have no control, and which it was impossible for them convol, and which it was impossible for due to foresee, to a condition of indigence and even statvarion. Taking a superficial view of the situation one might be tempted to say that the remedy is in their own hands. Let them the remedy is in their own hands. Let them forsale their homes and take service in the mills and the problem will be solved. But this would be a short-sighted and unwise policy. There are fundamental objections to it which cannot be overlooked

What the handloom industry of India calls for is not annihilation but leadership. To mytte a noble and ancient industry which has been for many ages one of the main bulwarks of Indias prosperity voluntarily to commit harakiri is a height of self-sacrifice of which even Japanese models would hardly approve The mill owners of Lancashire would no doubt benefit greatly-at least for the time heing-if they could persuade the toolish mill owners of India that in view of Lancashire owners or indus that in view of Lancasnier appedor skill intilligence education capital or other causes the latter ought prompily to commit suicide and if they could persuad the Government of India that in bolstering in the industry in its unequal struggle they were embarring in a wasteful and useless expediture of money and secury and that their penditure of money and energy and that their proper course would be to tax it out of exist ence or at least abandon it to its fate i

### Training Schools

Unfortunately in the case of the voiceless handloom weavers the mill interests have to handloom weavers the mill interests have to a large extent overpersuaded Government that it is useless to help them to sustain the mequal stringde Noarly overy leandloom weaving whool in India and elsewhere has sooner or later been converted into a training chool for mill foremen and managers as piring to salaries of from Rs 50 to Rs 500 What would when I've remembers the the managers of these institutions have been support without averaging the string of the salaries of the salaries of the salaries are the salaries of these institutions have been shown that the salaries of these institutions have been shown that the salaries of t almost without exception themselves trained in mill schools to mill methods and have be rome accustomed to look down upon the handloom industry and to regard it as being foredoomed to extinction

Similarly when Government have appointed experts, or committees to investigate the question and to report on the advisability and question and to report on the advisability and test means of helping the handloom weaver exceptional circumstances to be chosen from to whom has the duty been entrusted? Almost invariably to mill experts whose verdict has rule of very little use to him and is often a towariably to mill experts whose verdict has rule of very little use to him and is often a been a foregone conclusion. They might positive source of danger. The leaders whom well have saved themselves the trouble and here cause must understand his conditions persons myself and urged them to confer with must include those who are able themselves our own experts, who have been engaged in to handle the shuttle and must not be seen the exclusive study of the problem for the students and theoretisians, and here I would just? or it years or to allow me an opportunity like to say that it is highly dangerous for a

of presenting personally the handloom weavers' side of the story and almost without exception they have been too busy, or have not been able to visit the centres suggested or have paid them a cursory and contemptuous call. while a more or less one-sided report has been white a more or less one-stated report has been presented which has frequently resulted in Government withholding its much-needed help from this struggling community and further generously subsidiating the wealthy mill-schools i

Not that the two interests are necessarily opposed to each other any more than are the intantry and Cavary of an army in the field While Indian mills are looking abroad for markets for their yarn the 11 million skilled weavers at their door are well worthy of their consideration and should form the most valuable market for their output Mills that will study the requirements of this home fields need not look outside the four corners of India tor many a year to come

#### What is wanted.

What the handloom weavers of India need is -

- 1 Leadership out a sheepherd. They are like sheep with hitherto been supplied them have too often been wolves in sheeps clothing, who have falled either to understand their needs or win their confidence
- 2 The second great need is instruction in improved methods
- 3 The weaver must also be placed in touch with the markets of the world
- 4 This will involve a generous expendi-ture of money by Government in doing for the weaver what he obviously cannot do for himself But the outcome will abundantly repay the outlay

Properly led properly instructed and pro-perly connected with the world a great cloth beamar the weeter of India may yet again become India a pride and the increhants of the world may yet again vie with one another in seeking the products of his age-learned skill.

The task is not nearly so difficult as it seems The machinery exists but needs extension and expansion There are some things which the weaver can must and will do for himself. There are other things which must be done for blm

#### Leadership

I He must be supplied with Leaders who know his needs and in whom he can safely trust These leaders ought not save under Presidency or State to allow its policy towards the handkoom weaver to be dictated by
wrth useless knowledge, but in a weaving
a young graduate from a mill school We
should not dream of putting the cleverest
Colverity Graduate to fill the chair of a Com
of loans and time payments to become the chirectory of to dictate the polocy of Government, because he had gained honours in Policies that Boundary Bright And yet in not a few instances the deathies of the vast weaving community have been entrusted to the guidance or the meret tyros in this difficult art i What wonder that the ship has som been wrecked and consequently abandoned, and then the cense regarded as bopeless.

The great majority of these Leaders will have to be selected from the weavers them selves and not from callow unfledged students of the theory of their art

#### Suitable Schools Needed.

Therefore they must have suitable is I say suitable because many of the Schools schools established for their benefit have been anything but suitable Frequently it has been necessary to close them for this very reason. The founder of one such brought the Governor of his Presidency to warn the weavers that if they falled to drink at the foundah of textile knowledge which Govern ment had at great expense established for them, it would be his painful duty to stop its unvalued flow One man could lead them to water but even a Government could not force the inwilling horse to drink Boon after wards the multitition was closed, and the weavers of course were blamed for their stu

#### By a surtable school I mean

- (1) A school that is under the sympathetic anagement of a leader who understants the weavers needs and can win their confidence.
- (2) A school in which the teachers can them selves weave and can consequently be looked up to by the weavers
- (3) A school exclusively for weavers and not for mill-students, nor a combination of the two A school in which the adult weaver is taken by the hard and taught improved methods by the hard and caught improved manners. His advice, axistance, suggestions and objections should be encouraged, and he should be spron the free opportunity to choose for himself the find of implements, materials and methods which he humself may prefer within of course reasonable limits. He may not be able to read, or write, but when it comes to questions of his own particular art, he will usually exhibit a shrewdness alertness and common sense, which should be developed and encour
- (4) Being a family man the adult weaver must receive such remaineration as be may sequire for the support of his family while learning improved methods

- of loans and time payments to become the he has been taught the use should be so desire. He should be allowed to select those which he himself prefers and should be enabled to pay for them by instalments
- (7) Travelling branches should be established which can go from village to village at regu tar intervets explaining methods, inviting ortificisms establishing centres and helping to market the produce of the weavers, and to obtain for them good yarn at reasonable prices

### Marketing of Produce.

3 The marketing of produce is not so difficult as might at first sight appear. Each centre should gradually work up a market of its own and when one line ceases to yield a reasonable profit another should be substituted. Schools I say suitable because many of the property of the schools established for their benefit have been as the weavers become better organized and anything but suitable Frequently it has trained, the market will gradually run after them

> We have ourselves established in connec tion with our various weaving schools a trading agency which takes over the whole of their output, and whose business it is to find out what the markets require It works on a strictly business basis and greatly facilitates the working of our schools

> It is now some carht years since the Salva tion Army took up the cause of the handloom weavers of India and I think that we may claim to have gained a thorough working knowledge of their needs and to have largely won their confidence

> One of our Officers has invented a loom which has been generally accepted as the best and fastest handloom in existence. What is even more important, it works so easily that a child can use it Thus all the members of a weaver's family can work it in turn and bring their out put almost to a level with that of a mill Fami slays for throwing the shuttle can be obtained from Rs " and upward, and the complete from Rs " and upwards, and the complete loom from Rs. 36 and upwards

> A fast loom is of up use to a weaver without a warping machine that can turn out long warps For this we have a very sample device suitable for village use One warping machine can keep some twenty fast looms supplied with warps The coat of this machine is only Ra 3o

> The preparation of thread from cotton wool or alk has also received our attention, and improved methods have been introduced which are greatly appreciated by the weavers and villagers Improved spanning and reeling markinest can be obtained for Es 15 and

(6) The school must be in close touch with the world's markets and tunts teach the weaver the date of cloth that it will pay him to make the desired of cloth that it will pay him to make the strain upon the markets are keenly awake to the commercial at the markets are the markets and unless it is well as fast indertaking, and will appreciate make it soon goes to pieces. The weavers assess assistance. The mere throughded in the markets well understand all the markets will understand all the markets as grague is had except in an ordinary education.

#### Salvation Army Work.

We have already 20 centres of our own in India where weating, warping and silk red ing are being taught, while we have helped to start many others of a similar character. The influence of our work has spread to other lands, and we have supplied looms or weaving masters and we have suppress occasion of worting macrosts to Ceylon the Straits Settlements, Burma, China and Rhodests. I would close with quoting the testimony of a Burmese merchant who came over to our Ludhiana Weaving School

the rate of fifty picks per minute. A little more care and attention one could weave on these looms themoughly in a fortnight. I at once placed an order for 5 looms, one warp-ing machine and accessories, amounting in all to about Rs 1,100 which were dose and prompt ly despatched to my entire satisfaction I am leaving with regret on Saturday The school management and discipline are thorough choins and Rhodesis. I would close with quoting the testimony of a Burmese merchant who came over to our Ludhians Weaving School and purple-ofast The Manager is hard ward should to study the suitability of our methods for his country.

"I arrived here on the flist Varch 1913 to study the workings of the School and Looms and out he find of April 1s, in two days time and out he find of April 1s, in two days time is dishelver, love respect and honour them is found to my surp ise that I could weave at (Sd.) MAURG HLA PE, Mandalsy Burmah.

## Silk.

In the early days of the East India Company the Indian Silk trade prospected greatly and various sub-tropical races of the Silkworm were introduced. But the trade gradually declined for the following reasons -

In the seventeenth and eighteenth centuries India a chief competitor in the allk trade was the Levant Company Successful efforts, how ever were made to acolimatise in Europe one over were many to accommands in Europe one or two races of a temperate worm procured from China and Japan When sericulture became part of the agriculture of France and Italy a quality of allk was produced entirely different from that of India and Turkey and its appearance created a new demand and organized new markets.

All subsequent experience seems to have established the belief that the plains of India, or at all events of Bengal, are never likely to produce allk that could compete with this new industry On the lower hills of Northern India, ladustry On the lower hills of Northern India, on the other hand, a far amount of success has been attained with this (to India) new worm, as, for example in Debra Dun and Kashmir In Manipur it would appear probable that Bondyz mori, possibly obtained from China has been rearred for contarter The caprice of fashion has, from time to time powerfully modified the Indian slik trade The special properties of the korah slik were formerly much suppressed but the defensed for them has now appreciated but the demand for them has now declined. This circumstance together with defective systems of rearing and of hand recling and weaving, accounts largely for the present depression in the mulberry silk trade

Mulberry feeding worms.—Sir George Watt states that in no other country does the necessity exist so pressingly as in India to treat the subject of silk and the silk industries under two sections viz. Bombycidae the domesticated or mulberry feeding silk worms, and Saturniidae. the wild or non-milberry feeding worms In-India the amilberry worm (Bombyr Mori has been systematically reard for many conturies, there being six older forms of it. In the tem persic tracts of India various forms of Moris

alba, (the mulberry of the European silk peo ducing councides), are grown specially as food for the elikworm. This is the case in many parts of the plains of Northern India. Beluchias tan Afghanistan, Kashmir and along the Himalays at altitudes up to 11 000 feet. The other species even more largely grown for the Indian silkworm is M Indian of wifeh there are many distinctive varieties of races. This is the most common mulberry of Bengal and Assam as also of the Vilgiri hills.

India has three well known purely indigenous slikworms the many the many and the ert. The first is widely distributed on the lower hills, more especially these of the great central table-land and feeds on several jungle trees. The second is confined to Assam and Eastern Bengal. and feeds on a laurel. The third exists in a state of sami-domestication, being reared on the castor-oil plant From an art point of view the magasilk is the most interesting and attractive, and the cocoon can be reeled readly The err silk on the other hand is so extremely difficult to reel that it is nearly always carded and spun—an art which was practised in the Rhasi Hills of Assam long before it was thought of in Europe.

Experiments and results.—Numerous experiments have been made with a view to improving sericulture in India. Freuch and other experts are agreed that one of the causes of the decline of the slik industry in India has of the decline of the slik hodustry in India has been the prevalence of diseases and parasites among the worms, the most prevalent disease being petrine. M Lafont who has conducted experiments in cross breeding, believes that improvement in the crops will be obtained as soon as the fight against perfine and other diseases of the worms is taken up vigorously by the producers of seed and the rearest understand the consensus in the quality of the cocoons will be obtained by rearing various recess here and cross breds. races pure and cross breds.

In Kashmir and Mysore satisfactory results have been obtained. In the former State serioulture has been fortered on approved European principles with Italian reeling much!

sery, seed being imported annually on a large scale. In 1897 in Mysore Mr Tata, after selecting a plantation and site for rearing houses, seet to Japan for a Superintendent and trained operatives. The Mysore authorities have made a grant of Ra 5,000 a year to the Tata farm in return for instruction given to the propie of Mysore in Japanese methods of growing the mainlenty and rearing the meserts. The products of the Mysore state are exported to foreign corneries from Madras. The work of the Balvation Army is also noteworthy in various parts of India. They have turnshed experts, and sub lidiad arread site abouts the draft prospectus has been issued or a silk farm and institute to be started at Simils in dry the analysics of the Salvation Army The Lieut Governor of the Punjah has permitted the school to be called after his name and the Punjah Government is making a grant of Rs 2000 this year towards the exp nace after the puddance of som I rench experts have conducted or a breeding experiments with a view to establish a multivoltuse hybrid of European quality. There is a Government serioultural farm at Reframpore where it is said a pure write multi volding of salk worm is reared. The results of the Bengal Committees labours may be summed up as follows: the only railly effective method of dealing with the problem is to work up gradually to a point at which the whole of the seed occord necessary for the provinces will be supplied to rearrander Government supervision and to esta blish graduality a sufficient number of large superies throughout the silk districts of the

In 1915 there was issued by the Agricultura) Research Institute Pusa a Bulletin (No. 48 of 1915) entitle A Flick Report on the Rxye riments, carried out at Pusa to improve the Mulb rry Silk India.ry in a short Fristory note Mr Bainbrigge Fietcher (Imperial Entomotagist) explains that the object of the Bulletin is to place on record some of the more important exp riments which were commenced at Pusa in the year 1910 and have since been carried on in the end acourt to fix as up rior multivoitine race of the Mulb rry Silkworm which would not degenerate a d which would yield slik bitter both in quality a doubturn than that supplied by the multivoitine races which are rearred at Dresent

Central Nurseries—The report of the agricultural Department, Bengal for the year saiding June 50 1913, gives an account of a arbettar which has been devised with the object of reclaiming the all industry. The aim of the achieve is gradually to establish throughout to slik districts a sufficient number of central arrangements with rearing houses and thus enable the whole of the seed occouns required in the

province to be supplied under Government supervision. It is believed that this is the only reality effective method of dealing with the problem. A number of the existing smaller nurseries were closed during 1913 and other nurseries were closed during 1913 and other are being converted into enlarged and improved central nurseries with reasing houses complete the ultimate success of the scheme depends largely on the willingness of the reasens to pay an adequate price for pure seed.

A pamphlet was publi hed in 1916 by Mr M. No B Ficultural Accident at Pusa which contains practical bints on improved methods which are r commended to be used for reeling mulberry stik in Bengal and other silk producing districts. It has ber found that by the provision of two small pulleys to the ordinary Bengal evps of reeling machine superior throad can be obtained the cost of the extra apparatus in merely noming a flow or six stras per machine) whilst the autitability of the machine for cottage workers is maintained. By attention to successfully public that the temperature and quality of the water used in the neiting pans great improvements can be effected in must silk centres in Bengal ad other if tricts.

Exports of Silk—The exports of raw silk both from mulberry and non mulberry feed lng silkworms in 1914-15 amounted to 82 700 Re valued at Rs 8 lakhs acainst 160 200 lhs valued at Rs 15 lakhs in 1913 14 while that of chasam (waste) and coe one fell from 1 042 900 lbs valued at Rs 9½ lakhs to 433 600 lbs valued at nearly Rs 4 lakhs the total value of raw silk (including chasam and cocons) declined by 52 per cent to Rs 12 lakhs. The decrease is most marked in the Exports to France (which usually takes "O per cent of ludian raw silk) from 712 110 lbs to 187,209 lbs while those to the United Kingdom rose from 2°5,602 lbs to 287 830 lbs The dictutations are attributable to the war

The export of silk manufactures in 19:4-15 was valued at Re 3; lakins as compared with Ra 5; lakins in 19:3-14. Mixed goods accounted for a loss of Rs 90.000 and pirespoods of Rs 1; lakins The United Engalom the chief customer of Indian silk precesseds took 80.200 lbs worth Rs 77,000 in place of 182 800 lbs valued at Rs 1; lakins in 19:3-14

Imperial Silk Specialist.—At the end of 1916 it was decided that the first step to be tak a to rev v. the silk industry should be the imple ment of a qualified expert who after a seriul study of the conditions not only in India but in other silk producing countries will formula e recommendations for the consideration of Government. With the approval of the Secretary of State Mr H Maxwell Leftoy formerly Imperial Entomologist and now Protesor at the Imperial College of Science and Technology South Kensington has been appointed to the temperary post of Imperial Silk Specialist.

# Indigo.

Indigo dyes are obtained from the Indigoters, the Agricultural Research Institute Ferhaps a genus of Leguminosae which comprises some the most important problem for the natural 500 species, distributed throughout the tropical | indigo trade to adve is the marking at the dye and warm temperate regions of the globe in the form most suited to the dyers. Blinar India having about 40 Western India may indigo according to a British Dyer whose views to described as the headquarters of the species, are cutoff d to respect, dyes a fuller shade than

prevalence

and when Europeans first

aport the dye from India, it was
control from Sinat It was carried by the
Portuguese to Liebon and sold by them to the dyers of Holland and it was the desire to
obtain a more ample supply of dve stuff that to the formation of the Dutch East India
Company and so to the overthrow of the
Portuguese supremacy in the East Opposition to indigo in 17th eastury Europe was keen owing to its interference with the wood
industry but it was competition to obtain
indigo from other sources than India that led
to the first decline of the Indias trace and the value of the eighteenth century when
the cultivation of indigo in the West India
to the first decline of the Indias that led
to the first decline of the Indias Indi the contivation of indigo in the West Indee had been given up—partly on account of the high duties imposed upon it and partly because sugar and coffee were found to be more profitable—the industry was revived in India and as one of the many surprises of the industry the province of Bengal was selected for this revival It had no somer been organised however than troubles next arose in Bengal itself through troubles next agrees in heartan news managers misunderstandings between the planters, their cultivators and the Government which may be said to have culminated in Lord Macanlay a famous Memorandess of 1867. This led to another migration of the industry from Lower and Eastern Bengal to Tirhut and the United Provinces Here the troubles of the industry did not end, for the researches of the chemical laboratories of Germany threatened the very existence of any natural vegetable dye. They first killed the madiar dy of Furope, then the saflower the lac and the al dyes of India and are now advancing rapidly with synthetic indigo intent on the complete annihilation of the natural dye of pinions differ on many aspects of the present viciositude meantime the exports from India have seriously defined and salvation admitt dly lies in the path of cheaper production both in cultivation and manufacture. These issues are being vigor offully faxed and solue progress has been secomplished, but the future of the industry can scarcely help being described as f great uncertainty. The issue is not the advantage of new regulations of land tenure, but one exclusively of natural persus synthetic indigo (See Watt a Commercial Products of It dia Watta Commercial Products of India ) In February 1915 a conference was fill at Delhi

are entitled to respect, dyes a fuller shade than ofther synthetic indigests or indiges refined from place-indiges. It is further stated that 50 percent of Binar indige dyes a fuller shade

	Area under Indigo	Quantity Exported	Value of Exports
	Acres	Cwts	£
1901-02	"91 000	49 750	1 284 897
1904-05	646 000	85 377	808 735
1903-04	707 000	49 252	71" 468
1904-0a	477 000	60 410	556 405
1905-08	884 000	31 186	390 915
1906-07	41 000	35 102	400 990
1,007 08	294 000	32,430	424 849
1908-09	⊧ <b>284,00</b> 0	24,046	326 966
190 <del>9-1</del> 0	289 000	18 049	294 544
1910-11	276 000		223 529
1911 12	2/1 000	19 153	250 530
1914 13	2/1 000	11 & 7	147 000
1913 14	176 000	10.900	142 000

Present Position—The crop is most important in Biher and Madres In the Punish and United Provinces it now occupies little over i00 square miles altogether. In Bengal the crop is largely raised by British planters, in the other provinces chiefly by native cultivators. Belentility research work on questions connected. with cultivation and manufacture has been carried out by the Bihar Planter's Association with the aid or a grant from Government since less it is hoped that good rawths may be obtained from the blotogical line of work—on plant breeding and physiclogy—recordly taken up Box the official "Review of the Trade february 1915 a conference was filled at Delhi 1897. It is hoped that good "rawits may be inside industry was considered from the blokogical line of work—on points of term—agricultural research and our man three points of term—agricultural or botanical side of the question is fully discussed by Mr and Mrs. Probable that unless great improvement can be Roward of Proca in Bulletins Nos 51 and 55 of the effected in cheapening the method of produstion, either by selection of seed yielding the highest percentage of indigotin, or by densitied inprovement in manufacture, or in similar ways, the industry is unfortunately sequent.

The average wholesale price of Indigo in Calcusta in recent years is an follows —

1918 1914 (July) 1914 (Nov) 1915 (March) Rs. 238 per owt 439 652

1915 (search) 652
Crep Forecast.—The Director of Statistics
In his first memorandum on the crop for the
season 1916-16 states that the season has, on the whole been favourable except in Bihar and Orises and in the Punjab The GOOD has been adversely affected by the recent floods in Binar and Orises and in the Punjab by the deficiency of rainfall and the shortage of cand water All the provinces except the Punjab show an increase in the area sown the largest increase being in Madrae and the United Provinces

Details for the pr	ovinces a	re given l	elow ⊶
Province	Areain (First fo	Pro- visional estimate of yield in cwts	
	1915–16	1914-15	1915-16
Bihar and Origea	50 800		
Madras	196 000		
Punjab	18,500		
United Provinces Bombay and flind (including native	46 500	12 800	4 000
Staten	4,700	4,500	1 200
Bengal	1 600		
Total	258 100	116,500	88 500

# Tea.

Tea enlitivation in India is chiefly in Amain, Bengal and Southern India the cultiva-Assam, Bengal and Southern India the cultiva-tion alsowhere being comparatively unimpor-tant. The latest available official gugers is stati-tion are those for the year 1914. They show a total area of 522,600 acres under tes which is mearly 2 per cent, more than in 1913 of this area, 586 590 acres were plucked in 1914. The total number of plantations was 4,405. The area under cutilivation has increased in the last 10 vers by 18 per cent, and the prearea under cultivation has mercased in the last 10 years by 18 per cent. and the production by 41 per cent. The average production per acre for the whole of india, excluding Paurass (where the produce of the ten gardens is almost wholly converted into wet pickled ten which is vated as a condiment) was 554 lbs in 1913 and 1914, as compared with 548 lbs in 1912.

#### Aren and Production

The total area under tea in 1914 was divided between the different Provinces as follow — Assum— Realizaturitza Valley

Sorms Valley (Cachar and Sylhet)	144,148
Total, Assara	376 048
Sergal	159 054
thar and Orless (Chote Nagpur)	2,160
Juited Provinces	7 994
वेद्यां क्र	0 820
BAUTAN	26,245
France and Cuchin	38,809

The total production in 1914 was 312,821,000 in divided between the different parts of

	Lba.
Acres 12	208,227 000
See lary	76 378 900
southern India	24,618 000
Northern India	4 821,000
Differ and Origin	202,000
	<del></del>

Total

\$12,821,000

622 628

Acres

#### Exports

idian tea by sea —	T.bsr 0.0
	T'0#
United Kingdom	237 803 792
Aussia	19 636 087
Other European Countries	917 029
Egypt	687 062
Elsewhere in Africa	725 455
Canada.	10 950 615
UBA	2,787 584
Rest of America	228 6"1
Ceylon	3,202,620
China	8,308 902
Asiatic Turkey	1 229,826
Rest of Asia	3 762 923
Australesia	10 <b>9</b> 90 <b>6</b> 05
Total by Sea	300 771 081

The exports by land were as follows -

Afghanistan 682.864 Total by land 1 785 616 The sea and land exports to-

gether make, therefore & Grand Total of 302,656 697 The total quantity of indian tea imported

juto the United Kingdom is not consumed there a considerable portion being re export ed The re-exports of Indian tea from the United Kingdom in the past five years have been as follows --

1910 18 587 000 lbs 1917 17 997 000 1912 19 868,000 1918 21,830 000 30 399 000

The largest quantity of re exports last year went to Holland. Next came Canada them the United States and Russia. It was discovered that the ultimate death same of the tes went to

he principal customers—Holland, Sweden and Danmark—was Germany and Austria, Ger-many is not a tea drinking nation but her roops wanted it. Government first placed an mbargo on these re-exports but as it was proved that Helland could supply Germany with any quantity of tea from Java the embargo was withdrawn.

#### Features of the Trade.

by sea improved by eleven million pounds or ments to the United Kingdom.

nearly four per cent, as compared with 1913 14. Shipments to the United Kingdom, to which 72 per cent of the exports of tea is directed, increased by 28,231 000 lbs or 13 5 per cent. The total exports to Europe excluding the United Kingdom, showed a net decrease of 14,080 600 lbs as compared with the year 10,3214. 14,080 000 tos as compared with the year 1918-14. In consequence of the disorganization of shipping caused by the war the trade figures are regarded as quite satisfactory. The dec-The most striking features of the trade rease in exports to Russia and other importing in 1914-15 are the following The total exports markets was made good by the increased ship rease in exports to Russia and other importing

#### Quantity of Exports -

The following table shows the quantity of Tea exported by sea and by land to Foreign Countries from India Ceylon and China in the years 1896-97 to 1914-16 with variations index numbers taking the figure of 1896-97 as 100 —

<del></del>	 		Ci	π + Δ †
_	India	U ylon •	Black and green	Brick, tablet & dust
	16-	1bs	1bs	1/1/2
1990-9	150,441 245 [100]	110 095 194 [100]	164 538 953 [100]	78 567 383 [1 <b>0</b> 0]
1897 98	[101] د152,344 90	114,460 \$18 [104]	137097000 [కం]	"5 781 ×6" [98]
189R BA	158 539 498 [105]	142 395 519 [111]	147 967 200 [92]	09 01 7 007 [87]
1899 1900	1,7163999 [118]	129 881 904 [118]	153 669 087 [95]	~1 205 0e~ [91]
1900-01	192 300 658 [129]	149 264 60 1 [136]	144 270 933 [90]	52 190 067 [66]
1901 02	152 594 850 [1_1]	144 275 604 [131]	119 J90 000 [ 4]	42,740 093 [54]
1902-03	183 710 9.1 [122]	150 920 707 [137]	148 426 934 [70]	8 512,400 [100]
190:04	209 552 150 [139]	140 227 236 [J35]	140 807 36" [38]	83 813 600 [107]
1904-05	214,600 325 [142]	15 029 W3 [143]	132 366 773 [85]	61 493 733 [78]
1905-Ob	_16 7~0 366 [144	1 1 256 03 [156]	11210 oto [60]	70 784 267 [91]
1906-07	236 030 328 [157]	1 1 554 110 [158]	109884 1 4 [8 ]	73 306 1 3 [101]
40 ~ 041	25.8 18 826 [[u1]	181 126 498 [164]	1.50 022 266 (80)	54,940 000 [106]
1903-00	235 049 128 [158]	[נפון אני 141 (185	129265-33 [50]	ੂ ੧0 ਲਮਹ 73ਹ [103]
1909-10	250 521 064 [14]	189 اليلادى 189 1172	120 174,800 [74]	9 61 - 600 [101]
1910 11	256 439 814 [[70]	158 JZ5 [1~0]	12 94 4 [ 7]	64 158 943 [101]
1911 1_	263 515 774 (175,	184 720 34 [168]	1 ^48 ታ [85]	5 .2.1 407 [73]
1914 11	281 815 329 [187]	186 632 380 '169]	12~820 800 [79]	69 73° 200 [89]
1913-14	291 715 042 [194]	197 419 430 [379]	10 1 0 3 5 0 0 [64]	70 081 800 [89]
1914-15	302,558,697 [201]	191 838 946 [174]	114 689 200 [71]	84,307 738 [107]

The figures for years previous to 1905-06 relate to the calendar year as it has been found impossible to procure complete data for the official year

<sup>†</sup> For calendar year

The following	table shows the consumption	of Indian tea in India	
Year	Lba.	Year.	Lbs
1909-10	13 477,297	1912-13	19,805 560
1910-11	14,224 808	1918-14	22,797 000
1911-12	15 294,472	1911-15	19 291,000

The following statement Illustrates the variations in prices of the three principal grades of tea sold at the auction seles in Calcutta in 1888 and the five years on ing 1914 the average price of 1901 to 1910 being taken as 100 in each case The figures represent the average of the prices per pound of tee from all districts at each sale -

Year	Broken	Pekoe	Pek	û-e	Pekoe So	ouchon <b>g</b>	Avera all desc	
	Price.	Vari- ation	Price	Varia tion	Price	Varia-	Price	Varia tion
	As p		ás p	·	An p		A° p.	
1888	<b>1</b> 0 8	<b>1</b> 5ə	8 1	1.47	   B 3	123	8 8	124
1910	7 3	110	7 v	110	0 4	15	7 10	11:
1911	7 9	117	7 7	1,9	6.8	133	7 11 1	11
1912	[ 7 ວ່	112	8 11	114	ا و د	113	7 8	110
1913	<b>81</b> ]	1.2	7 5	346	6 10 ı	185	8 2	117
191.4	7 10	110	7 8	130	6 31	136	8 9	118

#### Capital and Labour

The number of persons employed in the in dustry in 1914 is returned at ab 898 perms sentity employed, and 88 902 temporarily employed. Compared with the returns of the pravious year there is an increase of 15 855 permsanent employee and a decrease of 5 77 in the number of temporary hands. The capital of joint stock companies sugaged in the produc-tion of tea anounted to about Rs. 30 crores or over £20 1 millions, viz.—

Companies registered in India 4 30 56 603 Companies registered in the United Kingdom (£17,284 348) 25 92,65 220

The Government of India is report on the production of tea in India in 1914 which corfains the latest available official retures state that of 98 companies relatered in India which have an ager gate paid up capital of Hs 70 latin, 91 declar d dividends for 1918 amounting the 197 per ont on the aggregate capital of Re 2,82 lakins 86 companies have up to how declared dividends for 1914, amounting to 15 6 per out, on their aggregate capital is 18.2 50 lakins The value pr Hs 100 of joint stock capital as calculated on the process of the shares of 92 companies what d in the Calculate have instructed was Hs 181 in March 1914 and of 95 companies was Hs. 181 in March 1914 and of 95 companies was Hs. 181 in March 1915 companies registered in the United Kingdom with stocking, capital of 510 4 millions (Rs 15 8) tains the latest available official returns state

by 60 companies out of them with an aggregate by occompanies out of them with an aggregation captely of t 0 \_ mill one (about Re 15 28 lakue) amout it d to 13 i procut. In 1914 the divid nds so for declard by 42 companies cups to 8 4 per cunt on their Aggregate capital of about 28 7 millions (Ra 12,91 lakus) M sans Barry at d Co of Calcutta lasurd in June 1915 a summary of the audited accounts for the part 3.4r of 102 joint attack tea companies incorporated in Calcutta representing a total paid up cap tal of He 315 60 8 0 It shows a surplus on the year's working exclude of communition on profits and d b nton interest of Re 60 37 000 the average profit birg 29 7 Per cent on the capital a volv d. Out of the above sum divid nd have been paid representing Au sycrage return to shareholders of 16 8 per cent.

The prospects of the tes industry continue Origin The demand for supplies for troops oright The demand for supplies for troops coupled with the prob bition of the manufacture of absinthe in France and of the sale of vodke in Bus is will no doubt r suit in a larger demand demand It will, according to some be a demand which may temporarily outstrip pro duction. The exports by sea from British is did of Indian to a from April to August 1915. were 14 per out higher than in the correspon ing period (April to August) of 1914.

The exports in the five months of 1915 were 11 858 000 lbs more than in the corresponding period of 1914 and 16 136 000 lbs, more than the normal Owing to the times being abnormal outputer registry in the context angular performs owing to be time The history of the introduction of coffee into India is very obscure. Most writers agree that it was brought to Mysore some two cen turies ago by a Mahommedan pligrim named Baba Budan, who on his return from Mecca hrought seven seeds with him. This tradition is so universally believed in by the inhabitants of the greater part of South India, that there seems every chance of its being founded on fact. About the beginning of the 19th century there is no doubt coffee had found its way to India and in 1823 a charter was granted to become a cotton mill a coffee plantation and a rum distillery. Some of the coffee frees planted in fulfilment of that charter are supposed to be still all ve and about the same time coffee was successfully grown in the Botanic Garden, Cal intta but the industry of coffee planting nowhere found as abiding place on the plans of India but migrated to the hills of South India, in Mysore more especially and thus into the very region where tradition allims it had been introduced two centuries previously

The first systematic plantation was apparently Mr Landon sear Chimmular This was established in 1830. It is supposed however that Major Bevan may have a trially grown coffee on the Wynad at a slightly earlier date and that Mr coakburn a Shevaroy plantation bears the same date as Mr Cannons. In 1840 Mr Casson formed a plantation at Manantaddy and in 1840 plantations were organised on the Nilgari hills.

The Position of the industry—The report ed area under coffee has shown a continuous diminution since 1898 According to the

agricultural statistics, the total in British India fell from 188 square miles in 1901-03 to 148 square miles in 1901-03 to 148 square miles in 1911 12, while for Mysore the corresponding figures were 195 and 167 square miles. It is reported that in some of the coffee growing districts coffee is giving way to tea, or, where the altitude is not prohibitive to rubber The advent of large supplies of cheep Brusillan coffees in the markets of Europe has by bringing down prices, no doubt injured the coffee indestry of India very seriously, but the following figures of export trads show no marked change in the position since 1802—

	Owner.
1902-03	269 165
1903-04	291 254
1904-05	329 647
19008	880 182
1906-07	228 094
1907-08	244 234
1908-09	802,022
1909-10	232 646
1910 11	272,249
1911 1.	241 085
1912 13	28 000
1913-14	700 000
1914 15	290 000

The exports to the United Kingdom have in the last few year fallen off considerably, there has been a great diminution in the trade with France but exports to other Continental countries have shown some increase. No estimate of the quantity of coffee consumed in India can be given Buring the 10 years chding 1913 14 the price of Indian co.5e has riem from \$1 1 to \$2.3 the 10 per cwit a rise of 17 per cent.

### OILS AND OIL CAKES.

The value of non-essential oil seeds exported from India in 1914 15 Was 192 millions (359 900 from india in 1914 16 was 197 millions (As) 900 tons) against 117 millions (15th 600 tons) in the previous year A pamphlet on the subject recently published by the Commercial Intulgence Department points out that it is both eronomically and industrally unsound for India to export her oil seeds instead of manufacturing the oils and oil cakes It allows other countries to rean the manufacturers profits and at the same time deprives Indian agriculture of the great poten tial wealth as cattle-food and manure con tained in the cil cakes. An immense quantity of oil is, as a matter of fact already manufac of the same of the of the country and supply most of the local demand for oil There has also been a great increase in recent years in the number of oil mills worked by steam or other mechanical power These crush all the commoner oil seeds and development has been expecially marked in the case of mustard oil, castor oil and ground nut oil In spite or all this there has been a per ceptible diminution in the export of oil from india, particularly of cocoanut oil and lineed oil and an increase in the export of oil seeds. which is particularly marked in the case of copra and groundnuts. The situation created by the War has naturally led to much discussion

the war man inchange to the possibility of developing on a large scale the existing oil milling industry in India.

There are three difficulties with which any proposal to develop in India an oil milling industry on a great scale is faced. In the first

place there exist high protective tariffs in huropean countines which encourage the export from India of the raw material rather than the manufactured product. Secondly there is a better market for the oil cake in Europe than in India and the treight or oil seeds in less than in India and the treight or oil seeds is less than the treight on cake. Thirdly it is much easier and less expensive to transport oil seeds by sea than it at to transport oil. While this has been the position in the European markets, Indian made oils other than eccount oil bave made enough headway in Eastern markets to suggest the possibility of a development of those markets.

or those marker of finding a market for cilcakes is equally important. The value of oil cakes is equally important. The value of oil wike 's me't better appreciated in Europe than in India. The Indian cultivator is prejudiced against the use of machine-made cake as a cattle tood or as manure because he considers that it contains less oil and therefore less mantishment than the village-made cake. He is therefore unwilling to buy it except at a reduced price. His prejudices on this point have no justification in fact since experts arread that nill cake is a better food for cattle than village made cake. Even when the millies we contains less oil than the village cake, where it exists is a drawback and not an advantage to the use of the cake as food. A consideration of the cake as food. A consideration of the cake as food a consideration of the cake as a cake a

# The Forests of India.

The neosesity of protecting the vast forest areas is India and Burma was first recognised in the Madras Presidency nearly a century ago when steps were taken to protect on a limited scale the more valuable areas in the Anamalis while in December 1885 Doctor Gleghorn was appointed the first Conservator of Forests in that Presidency It was not, however, until 1856 that Lord Dalhousie hald down a definite less that Lora Dalmonsie and down a definite policy with the object of afforing more wide-spread protection to the wast areas of valuable forest in British India. The action taken by the Supreme Government came none too soon for already in many localities the wanton hack ing by the local population and even more so by timber contractors had reduced the forests of a state from which they could not be expected to recover for many years even under the strictest protection

#### Recruitment of the Staff

In order to introduce a system of conservative management on scientific lines it was of first importance to collect a staff of trained foresters. and as no forcet training college existed at that | period in England, the Government of India as a commencement, enlisted the services of three German Forest Officers. The first of these to come to India was the late Sir Detrich Brandle E.O.I.E. FRS and it was to his extra-ordinary energy and abilities that a sound foundation was originally laid to the relentific management of the State forests Soon after his arrival in India, the staff was materially strengthaned by the recruitment of officers from the Indian Army In 1869 the first batch of technically transed English furest officers of technically trained English furest officers joined the service, having revelved their training either in Germany or France, and this system of condents it training remained in force until 1873 after which the training was carried on entirely at the National Forest eacheol of Nanev The first batch of Coopers Hill trained foresters arrived in India in 1887 and the last in 1907 after which date the training took place at Oxford University and later also at the Universities of Cambridge, Edin burgh and Dublin In this way the Government of India have been able to collect by degrees a highly trained staff of men to carry on the administration of their State forests, on the administration of their State forests.
The total strength of the Imperial Establish
ment at the present time is 257, of whom 29
are administrative officers and 219 Executive officers, among the latter are included in structors and Besearch Officers who are employ ed at the Forest Research Institute Dehra Dun

In order to keep pace with the recruitment of the superior staff, a Forest School was opened in 1878 at Dehra Dun for the training of Forest Recently this School has been con verted into a College and the instruction ex tended to include a course for training men for the Provincial Services. Besides the Forest Codings at Dehra two new Rangers Schools have been established, one at Pylmmans in Burma and the other at Colmbators in Madras. Busines and the centre as commonton in manage.

Regides this nearly every Province has established a local Forest School for the training of the lower embordinate establishment.

#### Area of State Forests.

The forests belonging to the State covered The thrests belonging to the State covered in 1913 14 245 612 square miles or roughly one-hourth of the whole of India and Burma Of this 96 297 square miles are Reserved Forests 8 390 square miles Protected Forests and 140 925 square miles Un classed forests, by far the greater portion of the latter class occurring in Burms. The distribution of these greas is by no means uniform, the metority below found in Rurma Assam. the majority being found in Burma Assam, Northern Bengal and along the foot of and extending into the Himalayas from the Nepal frontier westward through the United Pro-vinces and the Punjab In the Gangetic valley in the plains of the Punjab in Sind and Raj putana few forests occur except along the rivers, nor does one come across large wooded tracts until one enters the Central Provinces and the Godavari catchment area From there southward in the Satpuras and throughout the North and bouth Deccan there exist well distributed areas of forests though generally not in large blocks while on the Western Ghats, in the Nilgir's and Anamalis are found some of the country and comments are joined some of the finest trak forests of India proper The Rast Coast of India la fairly well stocked with forest growth, especially in the Godavari basin to the wost of Cuttack and Puri and again in the wost of Cuttack and Puri and again in the Sundarbans, while the Andaman Isles are densely wooded.

#### Revenue Expenditure and Outtorn.

The gross Revenue from State forests in 1913 14 amounted to Re 7 38 01,545 while the expenditure stood at 17.4,456 giving a net revenue of Re 157.89 000 The total out turn of timber and fuel in that year amounted to 294 million cubic feet out of which 18 894 872 11 294 million cubic feet out of which 18894 872 cubic feet of fuel and 4,299 810 cubic feet of tuel more removed the feet of tembers were given free to the local population. The number of bamboos removed came to nearly 802 million valued at 13 lakhs of rupees and the number of cattle grazed amounted to 18 545 545 88 a kills the telephone over division. to 15 674 598 while the total revenue derived from Minor Products was 107 lakhs of rupees

From the above figures it will be readily understood that not only is the revenue realised by the State considerable but that the hand ling of such largo amounts of Forest Produce requires a competent staff of officers.

#### Management.

Management.

The system under which the State forests are managed varies in different Provinces. In all cases, however the aim of the Forest. Department has been to introduse Working Plans for their forests, based on European systems of management. The system most usually adopted in India, especially for working the valuable teak and sal forests is the Selection System, in other words maintaining an equal distribution of all age classes through out the forest. In a few cases such as in deodar and other configures forests and also in a few hastances in sal forests the Uniform Method or a system by which trees of more or team and other configuration of the season of t

management may come into more general use at the inture, as a greater number of trained officers become available in many cases, owing to the destruction of the forests in the owing to the activation of the interest in past, it has only been possible to prescribe improvement Felling though in time a more regular system of working will be introduced. The forests which are destined to supply small building timber and fuel to the local popula-tion are generally worked by either the Cop-pice with Standard or Pure Coppice methods, according to the state and composition of the forest while certain areas have been put aside for the formation of Fuel and Fodder Reserves or as grazing areas

#### Forest Surveys

The preparations of maps for the State Forests is undertaken by the Great Trigonometrical Survey Department. The streak Great Survey Department. The streak Great to which figure yearly additions are being made to when figure vessible after the compilation of detailed maps, Working Plans are prepared for the forest and up to 1913 14 about 50 000 square miles of Forests have been dealt with

#### Method of Extraction.

Once the forests have been organized and Once the forests nave been organized and plans of working propared by an officer put on special duty for the purpose it remains for the executive officers to arrange for the exploitation of the trees, according to the provisions of the ametioned plans. This work is carried out in various wave in different local lities. Sometimes it is done departmentally as for instance in certain divisions on the West Coast and also in three or four of the western Coast and also in three or four of the western begu Yoma divisions in Burma. This system which had to be adopted by the Department when work was first commenced and contractors could not be obtained, has now generally been replaced by a system of giving leases to work the forests or by selling the annular curpes standing to contractors. In the case of the valuable teak forests of Burma the system of granting leases for a period of from 10 to 20 years has generally been adopted and has been found to work satisfactorily the trees for felling being marked by the Foiest Department. In other provinces this system begin the steer adopted on a more restricted scale and in India proper the custom of holding annual sales and selling the trees standing has annual sales and selling the trees standing has been found more convenient and profitable. The right to collect Minor Produce is generally put up for auction, which gives the highest bidder the right to collect the produce from the forest for a given period generally one year. In order to meet the requirements of the local population a system of issuing per mits is in force, the permit being issued free to right or privilege bolders and on payment of a low fee to other persons. This enables agriculturies to obtain their requirements as to fuel building timber and grass etc with agregaturate to determine the requirement as to fuel, building timber and grass etc. with out delay and without having to pay enhanced rates to a middleman. The right to grazing is dealt with in the same way.

### Important Timbers.

The forests of British India contain a vast the Indu humber of trees and woody plants, in fact a part in the greater number than is generally realized country,

by the public. For instance the number of tree species is about 2,500, while the number of woody shrubs and climbers is not far short teak stands first, both in quality and as to the amount annually exported from the State forests. S41 comes next 10 importance and is obtained in the greatest quaestities from the United Provinces and Repai, while a very considerable amount is also available from Bengal, the Central Provinces Assam and the Foundatory States of Oriusa Of other the Foundatory States of Orissa. Of other species of nearly equal importance is declar the timber of which is extensively used in the timber of which is attentively used in construction and as railway sleepers sandal wood absor and blackwood, the last two timbers being highly prized for building purposes and furniture making the sundri-wood of the Sundaibans and Basseln used in boat and carriage building. Andsuna and Burman Padauk used for the construction of gun carriages. riages furniture and railway carriages the one of the first deeper woods in the world the Red sandars of Madras, babul, the in or eng wood of Burms all used for building and for a variety of other purposes and Khair from which tutch is obtained A great variety of other useful timbers could be mentioned of nearly equal importance to the above which go to supply the requirements of the enormous copulation of the Indian Empire.

#### Minor Forest Products

Turning now to Minor Forest Products, the most important come under the math heads fibre and flosses, grasses distillation products oil seeds, tan and dyes gums and ream-rubber drugs and spices edible products, bambous can and administ and muscallanets, product The number is very large while some of them are of considerable economic importance so much so that they realized over 107 lakins of rupecs in 1913 14. It is not possible to do more than to mention one or two of the most important of these commodities as for instance myrabolams for tanning. Cutch is of over greater Importance being produced chiefly in Burma and the United Provuces though also prepared on a more limited scale elsewhere Another equally well known product is lac produced chiefly in Sind and the Central Provinces which besides being used to cally, is annually exported in the form of shellac Of other Minor Forest Products which deserve Of other Minor Forest Products which deserves mention are ro-ha and lemon oils gim kine babul gim gurkan oil thits damar and rubber, which are classed as exuded products sabel grass for papermaking and munj grass for fibre and thatching mohwa seed yielding a valuable oil sandal and agar wood oil and the seemtial unis obtained from them simul flows lead for stuffing millows. used for stuffing pillows kamella powder and lac dye used for dyeing pedophyllum ree'n casels bark cardamoms, pepper and strychmie, come under the head of drugs and spices and a variety of other products often

From what has been said above it will be seen that the Minor Products obtained from the Indian forests play by no means a small part in the coonomy and oursiness of the

Commercial Beveloperment.—In recent posses there has been a noticeable increase in the damand for forest products and several industries dependent on their supply have been or are about to be started. One of the most important of these is the utilization of hamboos savanual grasses and forecood for the manufacture of paper pulp and to assist the flave logment of this industry a special expert has been employed. With the assistance of the Titaginu Paper Mills Company Limited trisis in the manufacture of bamboo pulp have been extred out successfully on a commercial scale and on coalons for the extraction of bamboos have been granted to two firms in Battma and Reugel. In the Panjab a concession for the extraction of sprice and silver friend the Kulu forest for the manufacture of wood pulp has been granted. Matters are less advanced as regards the gras pulp industry

The extraction of taxaning materials has received attention for some time past particularly in the matter of obtoining a satisfactory extract from the bark of mangroves. The services of a Tanning Expert have been obtained

During recent years much has been done to stimulate the local manufacture of matches tests with numerous Indian woods have been extred out and a report regarding their suits bility and the prospects of this industry has been issued. Several match fectories on

modern lines have been established, and if a sufficient supply of match woods of good quality can be satured, there is no reason why the industry should not grow rapidly. The tea box industry has received special attention in Assam, where it absorbs a considerable portion of the outturn of the forests, and has et adily mown especially in the Assam Yelley Laxie quantities or sleepars have always been obtained by the Indian realways from the for sta in this country but as the supply of first class sleeper woods such as sol and disolar ment of less durable timbers have been in process for some years past.

Another important iorest industry in which under departmental management marked progress has been made in the manufacture of rosin and turpentine from crude resin obtained by tappang in a trees in the Humalayan for six in the Punjab and the United Provinces are wid difflettles have been exceed and in 1918-14 these turned out 27 429 manufa of rosin and 58 M3s Evilons of turpentine compared with 554 manufacture of manufacture of turpentine ten years carlier The Indian demand for these products which are largely used in the manufacture of paper paicts and has already affected imports from other countries.

The statement below relating to Exports of Forest Products is taken from the Annual Repure of Statistics relating to Forest Administration in British India for 1913-14 recently issued —

Articles of Forest Product	20 cwt ly	and other cubic	Adjustion at Port of shirment in 1912–14		
	Average of 5 years 1905-09 to 1012-15	In 191 514	Total	1 er Ton	
İ		l i	R	R	
Cantichotic raw	10	1163	-4 6 298 l	6763	
Button	1 83.	1001	13 07 089	1 196	
Lac Shell	19293	18 788	1 69 78 134	1 23 1	
Stick, seed and other kinds	2 00%	- 09"	1 2 72 774	r 5 J	
Outch and Gambier	3 444	2.341	9 82 4 38	317	
Мутаројатив	72 24 3	61 820	56 94 485	92	
Cardamuma	142	16"	49 919	4,491	
Sandal, Ebony and other ornamental		l l	10 40 507		
woods Teak	(#) 45.145	(b) 50 787	19 48 537 8 64,761	155	
Other timbers	8 0 0 8	7 985	7 09 784	R9	
Maria 1 4 4 4 4 4 4		<u>`</u>	Rs		
Total in 1913-14 1912-13			4,6425 118 4,67 80 613		
1911-12			8 96 86 432		
1910 11			4.26 71 543		
1009-10		18	) 4,20 96 717		

<sup>(</sup>a) Quantity (whether by weight or measurement) not recorded.
(b) Corrected figure Includes "other timbers previously excluded.

AREA OF FOREST LAND		Area of Lands un	PRODUCE Lands we te Forest	and der th Dopart	KEVENUE AND He control Thent		GENERAL TRANSPORT OF FOREST	a. 1	DEPARTMENT		1
Province	Area of Province	Erservod Foreste.	Proter ted Forests	Un classed Biste Forests	Total	Col 8	Timber and Fuel	Minor Produce	Воленце	Expendi ture	Surplus
	8 iii	Sq	B.q.	Nules	Square	Per cent	Cu #	4	41	GH	<b>'</b>
Bengal United Provinces Puniab	78 87µ 106 773 96 050	4 871 4 117 2 206	1 711 80 5 200	4 030 29 1 811	10 012 4 176 8 716	32 20 20 20	23 880 589 10,822 582 23 925 715	20 365 51 310 166 724	106 707 236 264 82 002	44 053 103 618 63 278	92,654 127,646 29,824
Burna Bibar and Oriesa Absam Contral Provinces and Benar	169 867 52 950 48 015 93 876	27 028 1 723 4 381 20 572	1056	106 (92	138 616 277 22 671 29 671	78 7 87 3 46 3 20 6	6. 841 242 17 881 912 14 241 981 36 419 840	55 838 1695 49 720 189 896	728 160 26 264 76 139 211 154	275 90 6 25 040 53 9_7 129 752	459,254 4 204 4 204 212,212 212,012
Coorg Rottle-West Prontier Prevince Ajmer Merwara	1 582 13 184 2,76	229 142	•		520 286 142	32 0 1 8 5 1	8 659 230 1 019 965	1,92 1,275 1,756	18 777 15 812 2 440	10.770 8.145 1.981	8,007 7,067 459
Bainchlatan Andamana Madras Bombay	74 28 143 142 284 123 301	313 156 18 641 11 967	495	2 0 15 8 °C	786 19 406 19,46	1 4 697 18 7 10 1	240.279 2 069 6 9 25 877 199 60 444 347	2 907 2866 142 509 98 403	1 744 29 995 274 166 362 535	1 902 17 (109 210 082 179 487	12,986 64 133 64 133 153 389
Total 1912 :	1 024 485	108 06	8 402	133 564	238 9_3	8	290 718 866	719,978	2,147	1 147 187	321 1 147 187 1 000 134
[ 1911~12   1910~11   1908~10	1 016 329 1 016 282 987 990	96 148 96 487	8 814 8 814	178 816 188 3 94 140 263	242 960 247 479 245 551	22.24 20.00	257 194 423 280 583 175 241 132 630	70° 982 68 188 554 095	1 827 167 1 1 827 0.01 1 785 058	1,129 771 1 016,268 994 710	807 890 810,762 740,343
Totals   1908-9 1906-7	986 144 985 938 987 749	94 661 94 0 28 94 0 37	8 855 8 A61 9 464	188 878 134 897 186 683	241 774 237 809 240 138	242 242 3	232 035 865 234 952 123 2.2. 146 948	551 144 551 144 504 419	1 724 195 1 724 195 1 766 099	981 786 987 528 937,667	715 384 766,670 828 512
1908-6 1904-6 1903-4	970 0 7 967 255 967,824	98,496 92,182 91,567	10 018 9 435 9 865	131 137 191 824 131 269	232 041. 232 041.	24 1 24 1 24 0	246 334 840 251 568 270 232,016 345	461 300 897 795 298 607	1,778 396 1 601 947 1 481 116	850 568 864,624 811,138	627 738 737 478 649 999

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### RUBBER CULTIVATION

The most important rubber yielding tree signal growing naturally in the Forests of India double that of Burma, when most of the trees is Richarder avery large troe of the outer Himilayas from Nepal eastwards in Assam, the Empire Sub-Deem cultivated in Assam in the Charduar plantation in the Terpur Sub-Division as the Sub-Division in the Kamrup Division. There are also a number of other rubber yielding trees from the district of the cannati Sub-Division in the Kamrup Division. There are also a number of other rubber yielding trees from the sub-Division in the Indian and Burman forests from Micharder of the trees are sound in the Indian and Burman forests from Micharder of the trees are sub-Division in the Rubber can be collected on terms outed to Burma, when most of the trees could are not yet products and the trees are sub-Division. There are sound in the Indian and Burman forests from Micharder of the trees of the trees that of Burma, when most of the trees could are not yet products and the trees are sub-Division. There are so the trees that of Burma, when most of the trees could are not yet products and the trees are treed as a sub-Division in the Empire of the trees are sub-Division in the Empire of the trees are sub-Division in the Empire of the trees and the trees are the sub-Division in the Empire of the trees are the sub-Division of the trees are treed as a sub-Division in the Empire of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are the sub-Division of the trees are th which rubber can be collected on terms quoted by Government. Attempts have been made to cultivate Para Crara and Castilios in various parts of India and Burms In India proper the ohlef attempts were made on the west coast, about 180 acres by ing planted from 1908 onward at Gersoppa Similar attempts have been made in Madras but at present Para rubber is being grown as a commercia: product rather in Burms than the rest of India

The production of rubber in India is confined to Assam Burms, and the Madres Presidency

		Acres	No of trees
Assam		4,651	137 430
Madras			1 636 476
Burna		29 ه	4,911 899
	Total	46,247	6 685,305

There has been a steady development in the There has been a steady development in the exports of rubber from India The exports increased from 23,254 cwts valued at Rs 79 lakhs in 1913 14 to the record figures of 12,825 cwts valued at Rs 93 lakhs in the veur 1914 15 India, including Bursa and the Mergm, has increased its plantations from 46 000 acres in 1918—the year for whom statems are given above—to 65 000 acres in 1918.

The Commissioner of Settlements and Land Becords, Burma, gives the following rough esti-

A TOTAL PROGRAMMA	
1915	1 500 000 lbs.
1916	1 800 000
1917	3 000 000

BIBLIOGRAPHY -For fuller details see Burms 29 44 4,911 899

Total 46,247 6 685,306

The vid of Assault plantations is relatively small and the number of trees to the acre is made and the number of trees to the acre is lating the following the finding to the following the finding to the special products of india by Sir George Watts and the number of trees to the acre is lished by the Government Press Calcutta 2006.

### MATCH FACTORIES

The total imports of matches into British | quantities but they are difficult to extract and The local imports of marches into british quantities out tries are dimension sould be in 1914 15 smoomted to nearly 151 transport and are therefore cently millions gross boxes valued at Rs 113 lakhs.

The share of Japan in the import trade was 61 india have not hitherto been attended with per cont and that of Sweden 24 per cent. It is true that there was a steady drop in the imports of matches from Japan during the first four months of the war but this wa followed by a very rapid rise in December 1914 onwards In normal years matches are also imported from Austria Hungary Germany and Belgium In the opinion of the Forest experts at Dehra Dun there is an abundance of raw material in this country for match manufacture.

Indian into industry which appears to the Indian match industry which appears to the Indian match industry which appears to the Indian Agraculturus the woods of the Stiffornian species are said to be employed in Emma for match spints Bombax tissance B accomplates conductors Spontance Section S Indian timbers for matches.—In an article

louis have not authorso been starened with great success but recently two well-equilpped factories have been started in Burma witied give promise of good results. One of those is in Bangoon and is owned by Chinese the other is at Mandalay and is under European manage ment. Further investigations are and to be ment. Further investigations are said to be necessary in order to settle the question as to the most suitable woods to employ and when these have been brought to a saturactory conclusion it is thought that Burma will be able to produce matches of intr-class quality. If may be added that in 1912, the latest year for which complete stands are available, there were sur match factories in India.

#### PAPER MAKING

This industry is not making the headway in India that had been anticipated there being only nine miles at work with a nominal capital of about Rs 64 lakhs which in 1913 produced over 60; million like of coarse paper valued at Rs 80 lakhs

There are five large paper mills in the country working on up to-date Western lines, to at Triagarh Kankinana and Raniganj in Bengal the Upper India Couper Mills at Lucknow and the Reay Mills at Poons There are also two smaller mills at Bombay and surst which make only country paper and there are one or two other mills which recently were not working. The five large mills have a large Government connection, as the greater part of Government orders for paper is placed in India Apart however from Government orders the Indian paper mills cannot be said to have made headway against the competition or imported paper.

The existence of the local industry depends chicity on the supply of Sabai grass which on account of unlayourable seasons sometimes yields short crops. It is of great importance therefore to look for materials allowing a constant outturn, and various reports have been published on the available paper making materials. Considerable attention has been devoted to Ramboo since 1875 when it was found that this plant—of which there are four other varieties in India—yielded a brious paper stock which made a quality of paper superior to exparte grass and at a considerably less cost. It was at that time estimated that one acre of bamboo would yield 10 tons of dried stems equivalent to tons of merchantable cellulos. In 1905 Mr. R. W. Shadil was invited by Government to visit Durina with a view of enquiring into the possibility of manufacturing paper pulp. His report on the subject appeared in March 1900. He made numerous experiments with bamboo and woods of Burma and laid down lines along which further enquiry should be made. Subsequently Mr. W. Ralit's pulp expert was engaged at the Forest Research Institute in conducting tests on the treatment of bamboos by the soda and sulphate processes the treatment of bamboo before belling, with remarks on the utilisation of nodes and internodes. His results were embodied in the Roport on the investigation of Bamboo.

for Production of Paper pulp published in 1911 Mr R 8 Pearson of the Rorest Service Dehra Dun as the outcome of enquiries made throughout India published in 1912 a note on the Utilization of Bamboo for the Manufacture of Paper pulp The yield per acre from bamboo is larger than that of grasses unaily used for paper The cost of working into pulp has been estimated to yield a product cheaper than imported unbleached spruce sulphite and unbleached sabsi grass pulp in 1911 Mr Dhruva Sumanas published a pamph let Dendrocalamus Strictus Bamboo of the Dancs as the result of investigations carried on in Banada State

The leading Indian naper grass for the last thirty years has been the bhalo bhaber or sabe grass of Northern India. It is a peren mal grass plentful in drifer tracts from Chota Magpur and Rajmahai to Nepal and Garhwai The Calcutta mills draw their supplies from Sahibgan Chota Nappur and the Nopal Terat. The quantity annually exported from Sahibgan characteristic and the cutting in these districts is said to commence in October when the plants are six or seven feet high Sabau grass yields from 36 6 to 45 5 per cent of bleached cellulogs.

Imported materials—Paper naking materials mostly woodpulp are imported to a great extent from the Unuted Kingdom Austria-Hungary Swedin and Germany Of chemicals the bisselma material caustre sods and sulphur or sulphure actal are imported chiefly from the United Kingdom. Roch is shready being manufactured by the bortet D partment in the United Provipies from rude resm obtained by tapping pure frees in the Unitals an Increase and the product is tell to be the paper mile in India.

In India the effects of the war were numediately left in the rise in the price of wood pulp which is used in considerable quantities by mills. The high cost of imported woodpulp and the increasing price pand for new materials such as baild grass, the cost of transporting the raw material to the mills and the temporarily high cost of channess are the time obstacles to the development of the local industry. The post itom may be greatly improved when the new sources of raw materials are exploited and the products made readily available.

# Mines and Minerals.

nectly in a survey of the mineral industries themical products in India has steadily grown.
of India is the fact that until recent years buttle. Before long the stage must be reached at which has been done to develop those minerals which are essential to modern metallurgical and che paical industries, while most striking progress has been made in opening out deposits from which products are obtained suitable for export, which products are obtained suitable for export, or for consumption in the country by what may conveniently be called direct processes in this respect India of to-day stands in converse to the India of a century ago. The European chemist armed with cheap supplies of suphuric acid and alkal and added by low sea reights and increased facilities for internal distribution by the apreading network of rail ways has been enabled to stamp out in all but reports in callifer the once flourishing native. remote localities the one fourtaining native manufactures of alum, the various alkaline compounds blue vitriol coppets copper, lead, steel and Iron and seriously to curtail the ex port trade in nitre and borax The reaction against that invasion is of recent date. The anticipation of the processes now employed in Europe for the manufacture of high-class steels and the artistic products in copper and brass gave the country a prominent position in the ancient metallurgical world while as a chief source of nitro India held a position of peculiar political importance until less than lorty years ago the chemical manufacturer of Europe found among his by products, cheaper and more effective compounds for the manufacture of explosives

The tasture which stands out most bromi | electricity the demand for metallurgical and ibefore long the stage must be reached at whoch the vanety and quantity of products required, but now imported, will satisfy the conditions necessary for the local production of these which can be economically manniactured only for the supply of groups of industries. Value of Output—The total value of the chief minerals for which returns of production.

are available for the years 1913 and 1914 was as follows -

	1913	1914
Coal Gold Potroleum	8 792 137 2 291 91, 1 034,586	£ 8 907 380 2 3 18 355 958 565
Manganese-ore	1,211 034	877 284
Salt	4,2 045	483 289
Mica	102 564	237 810
Saltpotre	200 903	272,462
Lead-ore and Lead	83 503	202 820
Tungsten-ore	1 <sub>47</sub> 763	178 543

#### Cost

Most of the coal raised in India comes from the Bengal-Gondwana coal fields Outside Bengal the most important mines are those at With the apread of rallways the development Singareni in Hyderabad, but there are a number of manufactures connected with jute cotton of smaller mines which have been worked at and paper and the gradually extended use of one time or another

There was a small rise of 11 per cent in quantity and about ? per cent in value of the Indian output of coal in 1914 which has now reached nearly 161 million tons with a value of 2.3 9 7.380 The pit a mouth value varied from Es 2 in (a train India to Rs 8 9 on Esluchistan the figures for the other coalfields, however being Es. 3 3 4 for the fields of Ethar and Orisea and Rs 2 13 10 for those of Bengal. There has been a very marked rise in recent years in the case of Assam coal which has risen from under Rs o in 1912 to Rs 7 in 1914. The pits mouth value has risen both in the Jherrish and Rankani fields but has fallen in Central India and in the Maan's Territory. and has remained steady in the Punjab

<del></del>	Outturn Tons	Declared value per ton.	Exports Tons	Imports. Tons
1904-05 1906-06	8 216 708 8 417 789	Rs a p 7 13 2 7 13 3	594 832 836 149	252,393 179 985
1906-07	9 783 2 -0	7 15 11	933 850	257 908
1907-08	11 147 339	8 1 7	72, 881	308 848
1908-09	12,760 635	8 18 5	571 582	455 806
1909-10	11 870 064	8 13 7	758 829	428 535
1910-11	12,047 418	8 10 6	889 601	384 181
1911-12	12,715 684	8 18 0	873,987	297,912
1912-18	14 706 889	10 0 4	881,289	658,694
1918-14	16,208 009	9 8 11	728,641	559 190
1914-15	16,464 000	8 14 2	594 000	392,000

Provincial production veers 1912 and 1918	of coal	during	the

Province	1912.	1913
Assam Baluchistan Bengal Behar and Orissa Central India Central Provinces	Tons 297 160 54 386 4 306 129 9 126 385 149 921 283 996	Tons. 270 862 52,932 4 649 235 10,227 65, 143 978 235 051
Hyderabad N W Frontier Pro- vince Punjab Rajputana (Bikaner)	481 652 50 38 409 18 251	51 040 18 781
Total	14 706 339	4 508 003

The growth of the coal mining industry may be roughly gaug d from the following table showing the number of Joint Stock Coal Companies and their total path up capital.

			No	RB
1906-07			66	260 lakh
1907-08			115	432
1908-09			125	658
1909 10			128	731
1910-11			129	721
1911 12			128	722
1912-13			130	716
1913-14			14s	-2b
1914 15			145	744
Thomas	TEGER	173	loant Stock (	omoranie, ž

There were 12d Joint Stock Companies at trade but the is in work in Bengal and 4 in Bibar and Orissa on business being done

the slat March 1914. These Companies accounted for 76 per cent of the total output of the Biogal and Bihar and Oriesa coal fields in 1918 Outside Biogal and Bihar and Oriesa cher were only nine Joint-Stock Companies at work during the year Only seven of coal Companies at work on the Sist March 1914 have a paid up capital (xriusivo of deb nture) of Rs 15 00 000 (£100 000) or more There are twenty others each of which has a paid up capital of Rs 750 000 (£50 000) but less than Re 15 00 000

Railways and Coal.—The latest Administration Report on Railways says that the rail ways in 1914 accounted for about one third (5 200 000 tons) of the coal mined in India in that y ar Owing to the falling off in traffic in consequence of the war the coal under contract for several railways was found to be in excess of requirem nte and arrangements were made for the delivery of a portion of this coal to b- nostponed until the year 1916-17 The fotal coal affected by this arrangement was about the year particularly 101 interior qualities of the year particularly 101 interior qualities of the accumulation of stocks at the col Il rise. This fall in value continued up to the end of the period under review when large quan tities of fair second class couls could be obtained at about Rs 2 per ton at pit's mouth a rate which is not much over the co t of raising the coal At the end of 1914 an offer was made by th | ( oal Department to the coal trade through the Indam Mining Asso lation to impect and passance of public export coal. It was hoped that this offer would stimulate the export coal trade but the rise in wain ights prevented much

### IRON ORE

Bengal and Bibur and Orissa are the only provinces in India in which from ore 1 min d for smelting by European methods. Iron smelt dustry in India and there is hardly a district away from the great alluvial tracts of the Indus Ganges and Brahmsputra in which slag heapare not found. The primitive iron smaller finds no difficulty in obtaining sufficient supplies of ore from demo its that no European (ronmaster would regard as worth his serious consideration Early attempts to introduce European processes for the manufacture of pig iron and steel were recorded in 1830 in the North Arcot District Since that date various other attempts have been made but none proved a success before that now in operation near Barakar in Bengal. The site of the Barakar Iron Works was originally chosen on account of the proximity of both coal and ore supplies. The outcrop of iron stone shales between the coal bearing Bara kar and Raniganj stages stretches east ard wat from the works and for many years the day ironatone nodules obtainable from this form ation formed the only supply of ore used in the blast furnaces Recently magnetite and hematite have been obtained from the Manbhum and Singhbhum districts and the production from the last named district has largely replaced the supplies of ore hitherto obtained near the The Bengal Iron and Steel Comiron works pany Limited have now given up the use of

ores obtained from the neighbourhood of Bara kar and Ranigani and are now obtaining their ores exclusively from the Kolhan Estate Singh bhum. The deposits are known as Pansira Hill and Buds Hill situated about 12 miles and 8 miles south-cust of Manharpur Station Bougal Nagpur Bailway The total quantity of or. In these two deposit has been estimated to be about 10 millions tons Of the Tata Iron about 10 minums tone of the large road and Steel Company at solchi an account is given elewer te in this volume. Although the Tata Iron Steel Company possesses slightly richer and purer ore bodies in the Haipur discher trict supplies of ore are at present drawn from the d po its in Mayurbhanj The ore di posits have all been found to take the form of roughly lenticular leads or bodies of hematite with small proportions of magnetite in close asso ciation with granite on the one hand and granu little rocks on the other | These latter have been noted in the field as charnockites the term being employed, rather loosely no doubt but probably in the main corn city to cover types of pritty widely varying acidity. In still more intimate association with the ores than either of the for going were found masses of dense quartz rocks frequently banded, and banded quarts-iron-ore rocks. These last are of the types so commonly associated with Indian iron-ores but are here not so prominent as is namally the case

#### WANGANESE ORE.

This industry commenced some twenty years ago by quarrying the deposits of the Visagopatam district, and from an output of 674 tons in 1892, the production rose landily be 92,908 tons in 1990 when the richer deposits in the Central Provinces were also attacked, and age now yielding a larger quantity of out than the Visagapatam mines. India now alternates with Russia as the first manganese producing country in the world. The most important deposits occur in the Central Provinces Madras, Central India and Mysore—the largest supply coming from the Central Provinces The mest to which the ore is put are somewhat varied. The peroxide is used by gless manufacturers to destroy the green colour in glues making and it is also used in percelain painting and glaxing for the brown colour which it yields. The ore is now used in the manufacture of ferromanganese for use in steel manufacture the fince 1904, when the

total output was 150 190 tons the progress of the industry has been remarkable owing to the high prices prevailing. In 1905 production reached 247 427 tons the following year it was more than doubled [571 495 tons) and in 1900 the figures again rose to 902,291 tons in 1909 on account of the fall in prices the output contracted to 842,875 tons but it almost regained its former position in 1910 when the production rose to 860 907 tons. In 1911 it full to 670 290 tons. In 1914 the output was 862,898 tons valued at 237,264. The ore raised in the Central Provinces is of a very high grade ranking from 50 to 54 per cent of the metal, and in tous, nucleus or its high quality is able to pay the heavy tax of freight over 500 miles of milway besides the shipment charges to Furope and America for the whole of the manufacture in the United Kingdom, Germany and the United States.

The Exports of Manganese ore from India during the years 1913-14 and 1914 15 are shown in the following table —

То		191114		1914 15	
United Kingdom Belgium France United States Other Countrie		Tons 258,776 18 821 103 847 106 427 61 278	Rs 4-,17 102 31 84,620 10 14,7-2 16 01 206 1- 13 800	fons 2.7 281 60 048 46 326 73 503 27 487	R <sub>5</sub> 9 72.1 1 10 85 932 8 43 460 11 02 545 5 26 175
·	TOTAL	715049	1 1 44)	90د 440	75 30 283

The full in prices in the latter part of 1907 produced by 1909 an almost complete cessation of mining for lower grades of one at mines far removed from railways Owing to an excess of production over exports the Procks on the mines at the end of 1908 stood at the high total of nearly 300,000 tons. The rise in the price of ore during 1910 resulted in a considerable in crease in the total ordered in the order of the contract of t

642,675 tons in 1909 to 800 90° tons in 1910 but with a fall in price in 1911 the output also fell in 1912 there was a rise of over 36 per cent in the value of the output. At the same time there was a slight fall in the amount produced The rise in the value of the fotal output was therefore due to improved prices and not to increased outfurn.

#### COLD

The greater part of the total output of gold in India is derived from the Kolar gold field in Mysore During the last decade the production of this mine resched its highest point in 1905 when 616 758 ounces were raised in 1906 the quantity won was 565 298 ounces and this figure fell to 555 685 ounces in 1907. The figures for the latter years reveal a small improvement. The Nisams mine at Hutti in Hydersbad comes next but at a respectable distance to the Kolar gold field. This mine was opened in 1903. The only other mines from which gold was raised were those in the Dharwar district of Bombay and the Anantapur district of Madras. The Dharwar mines gave an output of 2,098 ounces in 1911 but work there ceased in 1912. The Anantapur mines gave an output of 2,098 ounces in 1911 but work there ceased in 1912. The Anantapur mines gave their first output of gold during the year 1910 the amount being 2,322 ounces, valued at Rs 1,51,590. Gold mining was carried on in the North Aroot district of Madras from 1883 till 1906 the highest yield (2,884 ounces) being obtained in the year 1898. The Kyanipazza mine in Upper Burma was worked until 1903 when the pay tute was lost and the mize closed down. In 1902 dredging operations were

and 216 ounces of gold were obtained in 1904
the amount steadily increased from year to
year and reached 8,445 ounces in 1909 but
rell to 8 972 ounces in 1910 increasing again
to 6 390 ounces in 1911 and being in 1915
only 8 393 ounces The gold craze which
was prevalent in Rangoon a ew years ago,
has disappeared as suddenly as it sprang up.
The Burms Gold Dredging Company holds a
right to dredge for gold in the bed of the Irra
waddy river and notwithstanding the obtaicles
excountered from time to time in the shape
of floods, etc the company has so far been
fairly successful in its operations. The small
quantity of gold produced in the Punjab, the
Central Provinces and the United Provinces is
obtained by washing. Gold washing is carried on
in a great many districts in India, but there is
no complete record of the amount obtained in
this way. The average carnings of the workers
are very small, and the gold thus won is used
locally for making jewellery. The latest statistics available for the whole of India are
for 1914 when the gold produced in Mysore
and elsewhere in India amounted to 607,386
os. valued at \$2,3355

### PETROLEUM.

areas one on the east which includes Assam, Burms, and the islands off the Arakan coast.
This belt extends to the productive off fields of
Sumatrs, Java and Borneo The other area. dunatra, Java and Borneo The other area is on the west and includes the Punjab and Belluchistan the same belt of oil bearing rocks being continued beyond the borders of British India to Persia Of these two the eastern area is by far the most important and the most successful oil fields are found in the Irrawaddy valley Yennangyaung is the oldest and most developed of these fields. Native wells have been at work here for over 100 years, and in 1886 prior to the annexation of Upper Burms accopy prior to the annexation of Upper Burms the output its estimated to have averaged over 2 million gallons a year Drilling was begun in 1887. The Yeanneyst field yielded a very small supply of petroleum before 1891 in which year drilling was started by the Burms Oil Company Singa now holds the second piace among the oil fields of India. Petroleum was struck at the end of 1901 and in 1903, some small oil springs have been discovered 5 million gallons were obtained. In 1907 and attempts to develop them have not hitherto 1908 the production of this field was 43 million | been successful

Petroleum is found in India in two distinct gallons, and after a fall to 51½ million gallons reas—one on the east which includes Assam, larma, and the islands off the Arakan coast. In 1910 it rose to 56½ million gallons in 1912 several of the islands off the Arakan coast. Are the productive off fields of unsatrs, Java and Borneo The other area to the west and includes the Funjab and slutchistan the same belt of oil bearing rocks eing continued beyond the borders of Britan least Akyab and about 3° 000 gallons were deng continued beyond the borders of Britan less at in the Kyauppy district during lands to Persia Of these two the eastern reas is by far the most important and the most production for the twee being 18.25 gallons from the same belt of these two the castern reas is by far the most important and the most production for the twee being 18.25 gallons. production for that year being 18 323 gallons which increased to nearly 4 million gallons in 1912. The existence of oil in Assam has been 1912. The existence of oil in Assam has been known for many years and an oil spring was struck near Makum in 1867. Nothing more however was done until 1880, and from that year up till 1902 progress was slow. Since that year the annual production has been between 24 and 4 militon yallons.

On the west, oil springs have been known for many years to exist in the Rawalpindi and other districts in the Punjab In Baluchistan Petroleum geological conditions are adverse and though

Quantity and value of Petroleum produced in India during 191 and 1914

	1+13		1014		
~ ~	Quantit3	\ alu	Q TBHTIL2	Value	
	(allons	1.	Callon	±	
hrmu Akyab Kyaukpyu Magwe (Yenanzyaung) Hymgyan (Singu) Pakokku (Yenangvat) Minbu I hayetin yo	14 027 24 254 200 555 668 73 588 710 400 1 75 148 311 10 240	20 821 771 962 211 929 20 731 11 320 108	1 -, 048 25 087 1 4 981 79 1 73 409 318 1 4 316 685 1 683 1 70 1 22 836	240 671 J2 244 684 16 729 1013	
1маж — Digboi (Lakhimpur)	4 ውጭ 128	1 o 486	4 6xx 94	15 406	
<i>Punyab —</i> Misnwali	120	13	1 -(0	13	
1 otal	2.7 555 -25	1 034 58f	342 710 ج.ك.	9o8 50√	
	_	_	}		

There was a considerable increase in the import of kerosine into India during 1914 the total being nearly 84 million gallons as against only 66 million gallons in 1913

Amber Graphite and Mica -Amber # | dustries found in very small quantities in Burms, the out-put for 1912 being 27 cwt. velued at £179 Graphite is found in small quantities in various places but no progress has been made in mining except in Travancore, and there owing to the diff.

Tin. Copper Silver Lead and Antimony -The only persistent attempt to mine tin is in Burms. The output was for sometime indenforms. The output was for convenient mannersheart but rose in 1918 to 116 tons valued at £46 000 which fell to £38 000 in 1914. Copper is found in Southern India in Raiput except in Travancore, and there owing to the diff. 436 000 which fell to 538 000 in 1014. Copper crutities of working the mine has been shid down is found in Southern Initia in Rajput. The outpurn from it was 59 425 in 1911. India ana, and at various places along the has for many years been the leading producer outer Himalayas, but the ore is smelted of mices turning out more than half of the for the metal alone, no attempt being made to work below the war the output was only 88,180 ewis, compared being made to work below near Pangyang, with 43 650 cwts to 1918. A large proportion of the demand for this mineral has one from or of the demand for this mineral has one from or of the demand for this mineral has one from or of siver and lead, and in Southern Burma for maximum for use in its large electrical in Gen Stones.—The only precious and semipractical stones at present mined in India are the diamond, ruby sapphire spinel, tournatine, sariest, rook-crystal, agate, cornellan jadeire and amber Amber has already been referred to, of the rest only the ruby sapphire and jadeire attain any considerable value in production and the export of the latter has declined owing to the disturbances in China, which is the chief purchaser of Burmese jadeite. The output of diamonds is comparatively unimportant. The ruby mining industry of Burms has lately undergone a layourable change. In 1914 the output of gens was 204 042 carata.

Tungsten.—A marked feature of the deve impurat of the inheral industries of India during recent years is the rapid rise of the wolfram industry in the districts of Mergui and Tavoy in Lower Burma. Although there was an output of 7 tons from Mergui in 1909 the industry dates practically from the following y ar 19 U The output of wolfram in Burma rise from 1,688 tons valued at £127.752 in 1913. O 28.26 tons valued at £128,548 in 1914 15 Had it not been for dis location of the strangements for disposing of one during the latter part of last year the output would probably have been considerably ingher. The industry however subsequently recovered itself and, owing to the demand for wolfram for the manusarture of tungstin steel, special regulations have been made for the malno of it under the Defence of India Act.

According to the Director of the Geoloscal. Survey the total production of the word is about 3,000 tons per annum of concentrates car aring from 60 to "0 per cent. of tungstic trookled this Burma produces on quarter. In Slam the mining of wolfarm is a recurd development Wolfarm is also produced in Austraha and in the Malay Peninsula. Formerly Germany used to take over 50 per cent of the total exports from India but this is one of the mine also from the export was restricted owing to the war. Thus shipments for Germany were diverted in 1914-15 to the United Kingdom which took 1118 tons or 55 per cent. of total exports of 1,916 tons valued at Ra. 264 lakks.

Radio-active Minerals.—The General Report of the Director of the Geological Survey of India for 1913 includes a brief report by R. O Burton on an occurrence of prüblende at mica mines near Singar Gaya district Bengal The pitchblende occurs as rounded in a permatite that is intrudve in mica schists. Other minerals occurring in the permatite are mica, triplite, limente, tour maline and uranium ochre whitish columbite, gircon, and torbernite have also been recorded. Of these minerals triplite is stated to be the commonest. It is associated so perdistently with the pitchblende and uranium other that its presence is taken as an indicators of the presence of these minerals. Many of triplite some occur in a felspathle matrix of triplite some occur in a felspathle some occur in a felspathle some occur in a felspathle some occur in a felspathle some occur in a felspathle some occur in a felsp

### inspection of Mines.

During the year 1914 the average number of perions working in and about the mines regulated by the Indian Mines Act was 185,211 of whom 129 971 worked underground and 65 140 not the surface One hundred and fitteen thou said one hundred and seventy four were adult and fit of 174 were adult females and 6 858 were children under 12 years of age. This is an average of 4.961 workers or 2 18 per cent.

Accidents — During the year 1914, at mines regulated by the Indian Mines Act, 1901 there were 162 fatal accidents being an increase of 16 se compared with the number in 1913 and an increase of 2. as compared with the average number of last five years

These accidents involved the loss of 191 lives. This is a decrease of 20 upon the number of deaths in 1918.

There was no single accident involving a large death roll as was unfortunately the case in 1918. In one case however 6 lives were lost owing to a call of roof in a cost mine and in two cases o lives were lost, one by an explosion of zunpowder in a salt mine and the other by an extraption of waterin a mine mine. In fiv. cases 4 p rooms and in fifteen cases 2 persons were felled

Of three 152 secidents the Chief Inspector of Whee regards (a) 77 as being due to missaven ture (b) 42 to the fault of the decreed, (d) 1 to the fault of fellow workmen (d) 12 to the fault of subordinate chiefal and (e) 16 to the fault of the management

Very many of these accidents might have been prevented by the vereries of ordinary care and forethought on the part of both officials and men and the Calef Inspector of Mines is satisfied that only by closer supervision and structer discipline can their number be diminished such scredents result from persons passing through fence into old workings to get castly worked coal from persons slitching in dangerous places or under roof coal at which they have just been working from persons be lug struck down by falling roof and sides as they travel to and from their working places and trom disobedience to an officials orders in trivial matters.

The death-rate per thousand persons employed was 1 03 whilt blat of the prec d lig fits years was 1 1? 4t coal mines only thes figures were 1 05 and 1 34, and at mines other than coal 0 97 and 0 69 At coal mines other than coal 0 97 and 0 69 At coal mines in England during the ten years ending with and including 1913 the death rate per thousand prisons employed varied from 1 17 (lowest) to 1 69 (highest). The death rate per million of tons raised at coal mines only was 9 2, while that of the preceding five years was 11 97 At coal mines in England during the ten years million tons raised warled from 4 29 (low set) to 8 37 (highest).

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## Industrial Arts.

"The Arts of India," wrote Sir George and India. The more noteworthy oralls Birdwood in the first lines of his book on the include carving as applied to architecture, industrial arts of India which has now become rumiture and cabinet work intaying with other are the limstration of the religious life of the Hindus, as that life was already or ganked in full perfection under the code of Mann, B C 900-300 Whether that statement be accepted in its entirety or not, some knowledge of the religion of the Hindus is most essential to an understanding of their arts. That subject is dealt with elsewhere in this book and so is the subject of caste of which a knowledge is equally important in this connexion. But by way of preface to a brief outline of some of the more important art outline of some of the more important art industries of the country it may be well to state what is the basis of practicely the whole industrial system of India. The child learns bis hered. Larry erast from his lather or is apprenticed to a water, or master craftman who is often a relative of the pupil. There is no regular fee but a small present is often paid to the owner or foremen of the shop and in some trades a real fraction are water that the state of the state o man of the shop and in some tractes a religious occumony may take place at the time of apprenticeship. The child begins his work at a very early age at first he is expected to undertate the menial duries of the shop and is put to cleaning the tools later be begins to perform the simplest operations of the trade. There is little definite instruction but the boy gradually acquires skill by handling the tools and watching the workmen at their task As scon as he has made a little progress the appreciate is granted a small wage which is gradually increased as he becomes more queful and when his training is finished he either goes out into the world or secures a place on the permanent roll of his master's shop To the poor artisan the arrangement has this great advantage that at a very early age the child carns his livelihood and ceases to be a child carns his Dvollhood and ceases to be a burden on his parents. In former days the system answered well enough for the rude village industries which satisfied the needs of the bulk of the population and it also suc-ceeded in maintaining a class of workings with dealt in metals and textile fabries with such sense of form and colour that their work has sense of form and colour that their work has chalmaged comparison with the most artistic products of the West. It has not however enabled the Indian artisans to keep abreast with modern industrial development. Imported articles have to a considerable extent supplanted the products of home industry the quality of indian work has in many cases deteriorated and the workman has neither taken due advantage of the wide openings affected to him by advantage (withinstion and afforded to him by advancing civilisation and trade nor adhered rigidly to old methods and traditions. The efforts made to assist him have not as yet been attended with a great measure of success, but the potentialities of the Schools of Art and Technical Institutions are only beginning to be appreciated.

#### Wood-carving.

Indian wood-work which must come first in importance in the art products of the country in importance in the air products of the country, shows great diversity and many points of and there are as many direct air conceptatorest and the wood-carvers of the country those as centree. Some of the styles are well have gained a well-deserved reputation out known all over the world, such as the Benaries

woods or metals, veneering, and lattice-work. The art and industrial schools of Calcutta, Madras Bombay and Labore have given much attention to developing these crafts on indi-genous lines with the result that degeneration has to a large extent been prevented and a superior class of carpendars, dispersed over the country. On a smaller scale objects are carved in sandal wood with a minuteness and intricacy of elaboration only equalled by the results attained in every As to style, there results attained in 1vorv As to style, there is a great variety of types throughout the country the two chief influences on the art conceptuo being religion and the nature of the wood used. Mabomedan and Sikh work—for example is largely constructed on a geometric besis though in the modern Sikh work as in the Hindu—grotesque animal forms or mythological subjects are freely introduced. The woods chiefly used for ornamental work walnut tun nun Madras red wood (sometimes called black wood) dudh: (white-wood) red cedar and babul and others of less importance cenar and caput and others of less importance Deep under-cutting and sculpture are possible with teak red wood, and wahnt, whereas shishem and deedar can be used only for low relief work. In recent years a great demand relief work. In recent years a great demand for cheap and inferior carving—on tables and other articles alien to the Indian mind—has aprumg up m Europe and America and has been met by the export of vast quantitiee of poor work for which the both woods only are used while bone takes the place of ivory in lulaying. In these aboundations " writee Sir George Watt in the extallogue of the 1908 Exhibition at Delbi II to the proper articles. Exhibition at Delhi it is thought sufficient proof of an Indian character to introduce some portion of a mosque or temple, and that being done all attention to such details as being done all attention to such usions suitability of design or nature of ornamentation can be disregarded.

#### Metal Work.

The purely indigenous or village metal manu-The purely indigenous or village motal manufactures are perhaps, after those connected with wood the most important of all the six industries of India Most of the honsehold utendle are made of metal which thus to a large extent take the place of the porcelath and glass of Europe. Brass is most frequently employed by Hindus and copper by Mahora modans, the copper vessels being generally three for safety Every large village, has the copper and tronsmittle and also its jerseller and the same instrument has local further-law with his copper. in some instances these local industries attain in some instead these considerable magnitude, as is the case with the manufacture of copper and brass vessels at Srivagar Benares and other towns. The making of ornamental bowls, vases, trays and other Europeas articles constitutes an important industry in many places and a variety of pro-ceases is of course employed such as snamelling. damascening, and colouring either with fac or paint. The provinces of India have each two or three centres noted for their copper or brass ware,

style of punched brass, which is as a rule bad by design and execution and the engraved is repowed work in positised brass that comes in large quantities from Jaipur Better than either of those are the purchased and repounds copper work of Lucknow the best products of Bombay Poona, and some of the southern ladia centres, and the gongs and idole made in Barma. Ordinary domestas utenalis which are free from ornamentation so that they can be readily sooured, and the more elaborate implements used for religious ceremonials are among the most and beautiful interesting metal warrain India but they vary in style and finish through out the country Br George Watt writes—

The copper or brass vessel of most general use by the Hindus is the lota a globular meion stapped vessel flattened from the top and having an elegantly reflexed rim by which it is carried suspended between the imgers and thumb In shape this doubtless originated from the partially expanded flowers of the sacred lotus its name thus coming from the same root as the Latin sous washed and the English lotted a wash." With the Mahomedane between the lotted or Latin has been given a smooth total a wann' with the mannmedals the lots (or tout) has been given a spoul be cause the Quran ordains that a man shall per form his ablutions in running water hence the water when poured out of the lows is con the water when poured out of the tent is con-sidered to be running water It is carried by holding the rim at one side and it thus dangles instead of being (as with the Hindra) suspended from the middle of the hand. The shapes of the lots and tents and their respective uses have given birth to two widely different forms of both domestic and decorative metal, work charecteristic of India. For example, the spout and the use of copper more especially when thined, has originated a whole range of forms and designs not only quite unknown to the Hindra but next to impossible with the or forms and useigns not only quiet unintum, to the Hindus but next to impossible with the materials permitted by their religion. It is sourcely possible any longer to divide the gold and silver pists work of India hato four or five well defined classes distinguished by the style of ornamentation as the workers in three style of ornamentation as the workers in the metals have been quick to adopt a variety of European models. In Madras mythological medalions, in initiation of the encrusted style of Southern India art, still form the observer inte feature of much of the allyer work. In Bombay two distinctive forms survive the Bombay two distinctive forms survive the a frome and Kutch of these the former is a drep form of reponent, the silver usually being oxidised, the latter has a foral design of European origin in shallow repouse. Bangoon work is generally known by the frosted surface of the silver and Moulmeth work by the silver being either polished or bumbhed. But in almost every case the design of one province is copied in another and the best forms of cornaroration such as the shall restern of penamentation such as the shawl pattern of Kashmir have fallen into disuse either because of the labour involved in their production or because the smiths have found by experience that it is just as easy to sell inferior work

Great varieties of form and style are to be seen in the arms and jewellery made in India. Sir George Birdwood in his "Industrial arts of India" says that the forms of Indian jewellery as well as of gold and silver place, and the chadings and embousionts decembing

then, have come down in an unbroken track tion from the Ramayana and Mahabharata. The old types servive side by side with the copies of articles imported from the Rue de in Falx, and in any Indian jewilers shop a bewilering mixture of the archaic and the modern in to be seen

#### Shawl and Carpet Weaving.

It is only in Northern India (more especially in kashmir) that the spinning and weav me of wool extends to the production of highly finished and artistic goods Heattered here and there all over the country are band loom and there an over the country are many soon factories where coarse blankets, carpets and other fabrics are produced. This indigenous wool industry is most important in the Punjab The great centre of shawi production is kash the industry has also been carried on for many years in parts of the Punjab, where it was introduced by colonies of Kaahmir weavers. France was for many years the cluef foreign market for Kashmir shawls, and the trade which was damaged also by the competition of cheap imitations produced at Pauley never recovered from the effects of the Franco-German War The bulk of the Kashmir shawl weavers became carpet weavers or agriculturists. The latest report from the or agriculturists. The latest report from the Punjab regards the case of the genuine shawl industry as almost hopeless Carpet-weaving is carried on in vanous parts of the country. It is one of the many industries which is said to have been ruined by modern circles the country are considered. civilisation and m so far as many carpet fac tories in India are turning out an inferior orned in man are strong out an interior article, according to designs furnished by deal es in Rurope, this is correct. But it is wrong to ascribe the chespening of the caste weavor's product and his increased output to undersel ing by those jalls in which the weaving of carpete has been introduced as an occupation carpte has been introduced as an occupation for prisoners. On the other hand the falls, and especially that at verrowda, near Poons, have set a high standard by conserving old dealgns by using good material, and by avoiding the use of antine dves. Since the London Exhibition of 1851 a considerable export trade in Indian pile carpets has been created. Am ribar which caters for the American market in particular is the most important carpet-weaving centre in India but there are factories m many other places in Northern India, Raj putana Central India and the United Provinces in the lower provinces the industry hardly raists. Cotton and woollen carpets in other than pile stitch are made all over India. They are known as dari (a rug) and states, if (a cur) are known as dari (a rug) and states, if (a cur) poorer classes of Mahomedans generally use the cotton manufactures as praying carpets.

Apart from woven mats or carpets there is manufactured a great variety of so-called mais made from grass and other materials such as aloe, bamboo, cut date and other palm leaves. Mats or rather screens (tatties) made of the sweetly scented Kan-thes are hung in front of doors ste, to asford shade and to cool, by evaporation, the air which passes through the moststened texture Bamboo must through the moststened texture Bamboo such through the moststened texture Bamboo such through the moststened texture Bamboo such facility, and in Bengal sucree specially decreas mats (those constructed of reeds) are all but mats (those constructed of reeds) are all but

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miverally used in house-construction. The stones and all, make a great minutes of chases inversity mean in more construction. The increase and all make a great number of classic radio in darms mats must invertore, be very cations of this work possible. A sough diverget, and give employment to a far larger sion between the two forms is that we manager number of persons than can be learned from kind is called andors, and the light and graceful published statistics. In some of the julis landom. aloo-fibre mats are produced and flud a fair market while cano mats are not uncommon

This is one of the me important of the art industries of India attaining its highest development in Northern India 196 stiffles employed in the various kinds of work are numerous, but all have this in common that they are formed by the needle being pulled away from and not drawn towards the worker Mrs k. A. Stel has written a description of the Punjab darm stateh, known as publiars, but most of the varieties still await their historian. Darn stitch is cheffy used their historian. Darn stitch is cluefly used on coarse cotton and chain stitch on slik or woollen fabrics the former covering the tex wooden fabries the former tovering the tex-tile the latter ornamenting perts of it. Euro-pean demands have led to the production of large quantities of silk embrodery in which coloured silks and gold and silver wire ar-emphysed, for curtains table cloths and so on Another common form of embrodery is what is called chikan work on some white realities, restored, which as called or weather. on Another common form of embrodery is what is called chikan work on some white washing material such as called or musin in this the most usual form of stitch is the stim stitch combined with a form of buttle is the stim stitch combined with a form of buttle is the not stimp are been introduced into India by mind the stimp have been introduced into India by mistonaries. Laid embrodery with gold and silver wire (called karchob work because it is done on a frame) is common throughout the country in different forms. The wires of the country and at Luk how some realistic are drawn in a number of centres particularly terms cotta statuetts are produced. Where

#### Ivory

aloc-fire finite and processes and market while can make are not uncommon these are formed by elected canes bring placed by cross-ties. They are exceptionally strong and mlaying of ivery are still thought of the small results of the small results and especially valued in jubble offices where is much traffic.

Embroidery

This is one of the nice important of the small results and of closer grain than the Indian but Sir George Watt has pointed out that the fight tooth Ivery or Mammorth Ivery of Silberia, is also used by Indian workers. The contest is also used by Indian workers. The contest is also used by Indian workers. The contest is that the fight toother is also used by Indian workers. The contest is also used by Indian workers. The contest is also used by Indian workers. The contest is also used by Indian workers. Mysore Travancore and Moultnein A cuclous fact about this industry is that Though carving is generally an hereditary occupation there is no spoul easts identified with the craft like that of the vilvor surfale, and this is held to show that the industry as it now exists is it comparatively modern origin. Its development in recent times is due to the dealte of sightwers in India to have something Indian to take awas with them in an easily portable form. But some of the best work is still of great beauty and fine workman-hip. somethin g The carving of horns and shells may possibly be counted as valuations of this art

#### Statuary

Part of that division of handicrafts which together with the combustion with precious of the country and at chally for described by the logether with the combustion with precious of the country and the state of the drawing and the form of stitch in Burms statuerty in that material is turned together with the combustion with precious of the country and the wall chally for describing the country with the combustion with precious of the country and the wall chally for describing the country with the combustion with precious of the country and the country with the combustion of the country and the country with the combustion of the country and the country and the country and the country with the country and

## **Fisheries**

The Bengal Government took the important aten, a few years ago of initiating deep sea fabling by introducing a steam trawler. The undertaking served the purpose of investigation but we have yet to see commercial development on a large scale Special measures have also been taken by the Madras Government with more or less success there being in this province a Fi hery Department of Government under an Honorary Director The inland figherles where there are large rivers or tanks are often important in many parts of India

### Bengal & Bihar & Orissa.

The importance of the Bongal and Bahar and Orissa 11 hire - which are considered to guller as the 3 h long to the same geographical region—may be gauged from the last that ree and fish an the principal foodstuffs of the population and that not less than 80 p.r. int population and that not rest than 80 pt 1 nt of the entire peopl con um. fish as a result article of diet. As a result 1 0 per ent of the population is engaged in catching curing and selling fish a percentage which rises to 2 6 in the Presidency Rajshahi and Dacca Divisions moreover large numbers of cultivators are returned as alshermen also The waters of the Bay the rivers, and awamps furnishes small fry to eke out the frugal diet furnishes small by to see out the trusts det of the people. The best salt-water fish are the best, tapet, or mango-fish faullet, pom fret, and sole. Inland the hilss (Chupea Ilsha) is found in shouls in the Ganges while the rohu (Laben robita) and the katal (Catla buchanani) abound everywhere, as do slao innumerable other varieties much esteemed by the Bengalis prawns and crabs are caught in myriads. The manseer is found in the higher reaches of the rivers which dehouch from the Himalayas and in some of the rivers of the Chota Nagpur

The Bengali is a clever fisherman In the Boy of Bengal he practises deep-sea fishing drying his catch ashore on stakes driven into some sandy beach. The larger rivers are trawled from a sailing boat and the smaller streams are fished from welrs. The tanks and ditches are periodically dragged the fish at other times being angled or caught in a cast

The fishern in Indian water are unorganised cases the fishery itself is a separate estate in the modern sense of the term has num. In tanks the right of fishing vests in the bern of the coastal population are through owner or occupant who may be some public natural chommatances engaged in fishing bu body on a private individual. In the Bay and in a great proportion of cases this mans of large rivers fishing is free to all. The import livelihood shares their tan, with agriculture and of the fishing industry baseled to the occupy. ing the special attention of Covernment and its officers since the earliest times of the British connection with B. Basil

Altogether 644 600 persons in Bengal subsist by fishing or double the number subsisting by pasture Nor is this to be wondered at by pasture Nor is this to be wondered at considering the nature of the country and the resources, even though imperfectly developed of its rivers its estuaries and the sea board In addition moreover to those actively en gaged in fishing, there are 324 000 maintained by the sale of fish so that the total number supported by catching and selling fish is very httle under I million or 2 per cent. of the total population Fishing is in Bengal not con sidered an honourable reputation and the ambition of fishing castes is to attain greater respectability by becoming cultivators. As it is, one in every twelve of those whose principal occupation is fishing also cultivates some land in Bragaf and one in six in Bliar and Orlasa.

On of the first to turn his attention to sek ati fic study of the fish ries of the Bengal region was Russell who came out to India (Viziga patam) in 1781 and arted as Botanist in the Carnatic to the Cast India Company succession of investigators have continued his work and their reports show I that the fisheries offered great soop for profitable de velop ment in particular may be mentioned the great additions to the knowledge of the deep say takes in the Bay of Bengal made by violonal Alicek I at Surgeon Naturalist to the Indian Manne Survey and, later Bupenntonlend of the Indian Museum in Cakutta After or the Indian museum in Cakura Arios rethnals inquiries in whot that the sa fish nes of the Bay of Bengal are of a value well night incalculable. That they are unknown unrared for and unappreciated is unfortunately true but it is a qually true that they will prove a mine of wealth to whoever may have the enterprise to exploit them and the tenucity of purpose to work them in the face of the apathy and incredulity that at present exists regarding them I may state that us Natura list to the Indian Marine Survey I have care fully and I think thoroughly explored the Eavy of Ecogal from False Point in the Mahanadi at other times being angled or caught in a cast net. Every streamlet is studded with hundreds of wicker fibritarys, while prawn cages are abquittous. The wonder is that any living fab esseages so persistent and remorseless is of correcting and vertying all my earlier con the hunt for the finny tribe. Every other interest is subordinated to fits pursuit and not only is navigation impeded, but the drain age of the country is blocked by the obstruction of every channel and outlet.

The right of fishery in all but the largest rivers has generally been allenated by Govern the first of purpose and length of means to serve the private persons, having been included in the assets on which the permanent of the first of carriage from sea to market is that of earling through the consideration settlement of estates was based, but in some is that of earling from sea to market.

In 1906 the Government of Bengal placed of existing 6th without exhausting the natural Mr K G Gupta, C41 108 (now 8hr K G Gupta) a Runor Member of their Board of Bovenuc on special duty in order to inquire into the same subject. He made a compreherelye and valuable report from which followed hersive and valuable report from while a nonneced two important results—(1) His recommendation that a survey should be made of the fishery possibilities in the Bay of Bengal was immediately acted upon by Government and a typical strain trawler was set to work in the Terror and the distriction of D. Terror and D. a typical strain trawier was set to work in the Bay under the distribution of Dr. Travis Julius of the common r. marketable fish that we of the Lancashre. S. a. Fisheries who was specially engaged for the work and (2) a. Beingal university fishery Department was established Dr. Jenkins also specially investigated the fishery metable us first to det rinks with the legislation. possibilities of the Sunderbans

The results obtained by Dr. Jankins were of great importance. He showed that traw ling could be carried on successfully through out the year and concluded that a properly organised sub-me for developing the fisheris organis of a forme for neverloping the interior would yield a profitable return on capital invested. He incitented the lines on which these fisheries could be exploited.

While the sa fish rics of Bengal were thus investigated great industry was shown in the collection of information in experimental work and in the initiation of breeding operations on schafific has lu n gard to the fresh water the ries in both rivers and tanks. The tre quent overflowing of the great rivers in the rains and the precessity for studying the habits of the river fish added greatly to the work under this heading

The Fishery Department after following up Dr Jenkins investigations regard the Sun derbans fish ries as capable of furnishing yearly not for short of 200 000 manneds of fresh fish not far short of 200 600 manufar of fresh fish will they peint out that the area covered by the point out that the area covered by the point fill marks fish ries having beginned to be repully from such a visat area milet be well night incompared in his south bears listen can fully compiled in his further been ascertained that the manufact imports of fish to calculate from all sources roughly appresent 26 per cent of the actual requirements.

The future development of the fisher's on commercial lines will not only requir some on tourner the new man and only tree salest some advance in the gueral conditions and mental lot of the fishermin beautie the lowestern in which the occupation of fi-ling, and the distingtion in the little salest the local part of the little salest the little sale and the staling in fish is bold has led to the whole industry being I if in the hands of people with no expectation no infinity, and no business capacity. The most hopeful sign is officially stated to be the prospect of the spread of cooperative excit sortions amongst fishermen in the near future. The stration is obviously on in which the is ample scope for a development of this kind Meanwhile the highest as the contract are estimated. mps work for a divisional of the advantage meanwhile the light is D pertunent are carry ing on persists at, carryid and extensive propagated work As regards actual fishing the Department are dividing their concentration say 25 persistent are unusual unifical entire of management and reads for the first on two points—(1) the possibility of increasing part in hamlets hear Rarschl. The principal the actual number of fish present and (2) the fish caught on the coast are sharks, rays, and possibility of capturing a larger proportion skates. The pearl oyster is found at several

supply

A problem at the present time is the absence of fishery laws in Bengal The Fishery Department point out that as some I gislation has been found necessary in there other civilsed country in order to protect both fish and the community shainst the respect of man it may be assumed that soomer or later begind tion will be tound a resury in Bengul tion will be found a vessity in using a At present we know so little regarding the habits of the commoner marketable fish that we have not sufficient data on which to formulate nature and object of any laws daired"

#### Rurma

Tie fisheri s of Burma are important finan cially and otherwise. From time immemorial the exclusive right of fishing in certain classes of inland waters has belonged to the Govern ment, and this right has been perpetuated in various fishery enactments, the latest of which is the Burna Fisherics Act of 1905 Fishing is also carried on along the coast but the rea fi heries absorb but a small portion of industry Wost of the fishermen labour in the streams uost of the intermen about in the streams and pools which abound particularly in the delta Districts The right to work these fisheries mentioned in the enactments slinded to above is usually sold at auctirn and productive inland waters of this kind often fetch very considerable sums River fishing is largely carried on by means of nets and generally yields revenue in the shape of licence fees for each net or other fishing implement tees for each net or other using implement used Here and there along the roast are turtle banks which yield a profit to Govern ment. In the extreme south the waters of the Mergul Archipelage afford a rich harvest of sergul Arcupetagy andrea a rich harvest of fish and prawns mother-of pearl shells and thite substitutes green smalls and troches, shark fine fish maws and beche-de-mer Pearling with diving apparatus was introduced by Australians with Filipino and Japanese livers in 1893 They worked mainly for the shell, it being impossible for them to keep an shell, it being hapoisible for them to keep an effortly check on the divers as regards the peatls After about five years when the yield of whill had decreased they all left. The hidustry was thus carried on by the Burmese

#### Bombay

The Bombay sea fisheries are important and give employment to numerous castes, chief of which are the Kolls Pomfret, sale, stone and lady fish are sold fresh while others such as the bombil are salted and dried Large quantifies of small fry are sold as manure. The palls found to the Indus and the maral and mulseer are the principal fresh water flah

Sea fishing is carried on by the Muhana tri he of Musaimans who reside for the most

### The Punish

There has been a Denartment of Fisheries in the Punjab since 1912. It operates under a sea whole self-supporting from the first and Director of Fisheries and is concerned with ultimately a source of revenue and will at the fishing both in the rivers of the province and same time protect the fishermen in their industry to seriain takes. The three years work streed: The fracting of these rules will require carried performed by the Department have almost study of existing conditions and are likely to exittely be a concerned with preliminary work occupy a large share of the time of the depart In his review of the first report of the Depart

ment the Secretary to Government obsired the general operations have somisted largely in investigation and experiment on the Beas of indigenous fit in these rivers their habits and the 1 ations of their spawning grounds and the enabling pigulations to be framed for their preservation. The operations in the year ended May 31 1915 which is the latest their preservation facts bearing on the customs and practices rights and obligations of flatermen. History considers will be at once successful in preserv considers will in at once successible in preserve to finering from \$4.1 miles of water after properties for all of the properties for the properti

better system. It is believed that a scheme of conservancy can be evolved which, when completed, will make the Fisheries Department as a whole self-supporting from the first and

numb for several years
4 ide issue of the work of the Department consists of trout cultural on rations the object being (states the Financial Commis and Rant with a view to ascertaining the speci a sloners, last roport) not so much to increase the fond upidi s of the Province though to some total uplas of the fronte should be to create a valuable sporting property. One funded and sixtern mike of fishable water have been stocked with front and the fish appear. p ried for which official details have been lained to be spawning naturally. In Director of we largely a fulfillownt of this promise and Pisherice estimates that including wild fry to the information accommisted remarding the there were entry last year at least half a million blology and habits of fish was added a mass or trout in 41 miles of river which would have bern opened to fishing in 191; but for the war The Unaccial Commissioners say - It cannot Regulations have been drafted and a Il rusing be antichased that directly Government will scheme worked out for various fishing regions obtain any considerable income from this and the Director has evolved a plan which he source. The Director of Fisherics estimates the consideration will be strong accounted to the constant of n t lncom from 41 miles of water after pro

### HALL MARKING OF PLATE

Arribus Trad Association in India have at ageometr of trade in Briti in the reltory and its different times urged upon Government that in the jewellery and after trade in India locally made goods in gold and after are offered without mordinate cost was not usuated by the sold in such a way as to constitute a trade on great majority of the trade sold in such a way as to constitute a limit of the public and that in order to protect hour t traders from juntair competition. It is necessary that a voluntary when of Hall marking hould by adopted. It is stated that the sy term would not only protect the public but would raise that standard of wokmanship in India and that in India and river wolluntary system of same although Hall marking should be voluntary which cond not be universal in its application in in the first in three it should be made compul ROLL CASULTARILA

a system of Hall marking whether voluntary or compulsory the main objections to the promed being

- (1) That the legislation which would be quired to introduce a compulsory system of

- great majority of the trade
- (4) That there was a great danger of counter feiting Hall marks and their fraudulent application to inferior spurious, or loaded ward
- (5) That there were only two Assay Offices which coud not be universal in its application it was highly improbable that the fees received would to er the expenses of offices established for the purpose at other places unless the fees Objections to the proposal.—troveruneut were levied at such a rate as to constitute the have so far thought it has pedient to establish imposition of a substantially heavy tax on the Wales.

(6) That the ontcome of the system would therefor b to indict serious injury on workern the metals in all places except in towns where quired to introduce a compulsory system of the Assay Offices are located, most of them Itali marking would be of a character entirely were poor artisans who could not afford the proceed to the common policy of the Covern expenses of synding their goods to the Assay neart of India and would be vexatious and offices and it they refrained from getting their control in operation (2) That the provisions of a law of this flori trade and would prohably have to retrie character would be constantly availed and that the provisions would be constantly availed and this from business in favour of wealthler dealers in a result of its operation would be the discour (large centers.

# Tata Iron and Steel Co. Ltd.

The Tata Iron and Steel undertaking is the reacest of the modern industrial enterprises of the modern industrial enterprises of the modern industrial enterprises of industrial enterprises of the modern addition to the same of the manufactured products it is boyed that the kind in Europe and America. This greatest of the modern industrial enterprises in India and will rank with the large concerns of the third in Europe and America. This gigantto project owed its inception to the gentus and enterprise of the late Mr Jamestjee Tata of the firm of Mesers Tata Sons & Co Better the formation of the Company the hest brains of Rurope and America were utilized in exa | mining into the possibility of evablishing in India a great iron and steel industry on a pay ing balls, and no efforts were spared to render the investigation as thorough as possible. No less than Re 5 50 000 were spent in the investigation before Messrs Tata, Sons & Co established to their satisfaction that such works could be erected in India with every reasonable prospect of success. The site eventually fixed prospect of success at Sakchi a village in the Singhbhum District of Chota Nagpur some two miles from the station of Kalimati, on the Bengal Nagpur Bailway

Within reasonable distance of Salchi which bids fair to become the Pittsburg of India, very large deposits of high grade iron ore were discovered in proximity to coal of a suit able coking character for the manufacture of pig iron at a very low figure Two rich flolds pig iron at a very low figure. Two ruh floids containing very large supplies of this ore were secured on uitable leases by Mesers. Tata Sons & Co., one situated in the state of Mour shann and the other in the Rappur district the intendion being to limit operations for the present to the Mourbiann hills in which 7,000,000 tons of ore had been proved to exist on the lower ridges alone. Numerous analyses have moved this one to contain on an average over proyed this ore to contain on an average over 60 per cent, of metallic iron. The royalties pay 69 per cent, of metallic true. The royalties pay table under the leases, based on an annual out put of 300 000 tone average 2 625 aims per ton for the first 30 years, and 5 annuas per tor for the succeeding 30 years. These are beds are some 40 miles by rail from the site of the companys works and the ore is delivered at the rate of about Re. 2-4-0 per ton

Messrs Tata Some & Co received from the Company in full settlement for the transfer of all mining rights concessions leases, etc which they had acquired, and in full settlement of all expenses of investigation incurred by of all expenses of investigation incurred by them prior to the formation of the Conyany 20 000 fully pail up Ordinary shares of Rs 70 each equivalent to a payment of its 150 000 and in addition a lump sum payment of Rz 525 000 in cash In addition to fisce pay ments the syndicate of grutlemon who were instrumental in the actual formation of the Company received as remuneration for their services 1 300 fully paid up Ordinary shares equivalent to a payment of Rs 99 750

#### Sakchi Works

The Company s works were originally design ed for an annual output of 120 000 tens of pig ed for an annual output of 120 000 tons of pig life sasoon David, Bart (Sasoon J David & Funa and the conversion of 80 000 tons into 60 81 Cowas for James and Sasoon David, Bart (Sir J Cowas 72,000 tons of finished steel The average fragories into india of iron and steel of the Trackersey Kt (Thackersey K

a further source of revenue may be found in the export of a portion of the company's ex-tensive deposits of high grade one which can be placed for be at Calcutta at the very mo-derair, out of Rs 4 2-0 per ton approximately On all ore sold as ore or exported Messrs On all ore sold as one or exported Messry of Lata Sors & Co are entitled to a royalty of 4 annas a ton. The company further possesses considerable manganese properties at Ramrama in the Central Provinces which will shortly be connected up by rail with the Bengal Nagur Railway, from which it is hoped to secure a considerable revenue

The following concessions were granted by the Government of Indla to the Company --

- (1) The purchase by the State of 20 000 tone of steel rails at nually for a period of ten years subject to the condition that the rails comply with the Government specification and that the prices be not more than the prices at which similar rails could be delivered c i f if im ported into India.
- (2) A reduced rate of 1-25 of a pie per maund per mile equivalent to 15 of an anna per ton mile on all materials and plant required for construction and on all raw material to the works, subject to a minimum mileage charge and to revision at the end of ten years The reduced rate has also been made applicable to all finished products and bye-products despatched for shipment from Calcutta
- The entire cost of the works inclusive of the purchase of himing rights collience and all charges incurred in the construction of the town of Sakthi for the housing of the small arfuy of the Company en ployers was put down at its 2 40 00 000 and it was estimated that on the average prices ruling during the ten years 1898 to 180, the manufacturing profit assuming a sale of 8,000 tons of pig from and 72,000 tons of finished stock would after mooting working (Apriles a depreciations etc. amount to Rs. 24 15 000. This sum it was calculated would, after meeting interest on debentures and commission payable to the Managnig Agents enable the Company to pay managing Agence change in company to pay the stipulated dividends of 6 per cent on the profetence capital 8 per cent on the ordinary capital and 25 per cent on the deferred capital and leave a surplus of approximately Rs 7 15 000 for distribution in equal shares between the ordinary and the deferred capital

#### Finance

The Company was registered on 26th August 1947 The Directors are Bir D J Tata Kt (Tata Sons & Co) Special Director Chairman Bir Sassoon David, Bart (Sassoon J David & Mr Narottum Morarjeo Goculdas (Morarjeo Goculdas & Co ), Mr M A Tana (of Bhaynagar State ) Mr C V Mehta (Vilbhucandas Atmaram & Co ), Sir Shapurji B Broscha, kt (Tullock chand and Shapurji) (Debenture Director) Mr R. D Tata (Tata Sons & Co ) Mr A J Fili moria (Tata Sons & Co ) M Special Director) Managing Agents—Miesers Tata Sons & Co

The following figure explain the financial arrangements of the Company —

Capital authorised and issued—Rs 2 31 75 000 Ordinary capital—Rs 1 JU 00 000 Preference capital—Rs 75 00 000 Deterred capital—Rs 8, 75 000 Capital subscribed on the 50th June, 1914—Bs 2,15 57 700 Ordinary capital—Rs 1 34,00 259 Preference rapital—Es 2,8,450 Deferred capital—Rs 6 75 000 Amount called up Rs 2,00 50 5 Ordinary shares, Rs 1 49 46 675 Proference shares, 74,58 900 Deferred shares R 6 75 000 In addition Debenture capital to the extent of Rs 60 to 000 was lesued.

#### Present Position

The Company started operations in August 1007 and the construction and equipment of the work were regarded as practically completed by the end of January 1913 at a total capital outlay on that date of Ra 21 00 000.

The blast furnacts worked well from the start and turned out plg iron of excellent quality. The steel furnaces gave a considerable amount of initial trouble but these difficulties were completely overcome

The annual report of the Tata Iron and Steel Company Issued in November 1915 showed a net profit during the year ending 30th June 1915 amounting to Bs 24 \$3,088 which with the sum brought forward from the preceding year's account made a total sum of Rs 25,63 760 Dividend was paid ou Preference shares for the twelve months ending 30th June 1915 at the rate of six per cent per annum less income-tax and on Ordinary shares at the rate of 8°°, per annum

The Chairman of the company stated at the annual meeting in Movember 1914. Bo far the war has not affected us prijudically on the contrary to a certain extent it might be said that the stoppage of imports of fron and steel goods from Europe has given an impetus to our products which are being more actively inquired for from many remote parts of this country. The war has taught us one leaven namely to endeavour to be self-contained

as much as possible and to be independent of imported foreign material Altogether we are on the way to make our works more self reliant than litherto The report stated that the works began making steel a guined for the manufacture of shells of the for mulitary pur poses from August 1914. Up to date a large tonnage of such atrel has been supplied to the various work hops and factories in India making shells for Covernment. In view of the great and increasing demand for the products of the company such as steel ralls structural materials etc. the directors sanctioned the ins tallation of two new open hearth furnaces, a pressed stal sheper plant a cast fron pipe foun dry and the consequent necessary extensions to the power plant and the housing capacity for staff

Exploration in Mourbhan State resulted in the location of right deposits of from or within from 12 to 23 index from the present mines all being surface of posits which can be noticed easily and cheaply Test pits indicate the present mines and of at lest equal quality. The work of proving and surveying the magnesite deposits in Mysore State has been going on also deposits of both ron ore and chrome ore have been located in this State.

Exploration is bring made for coal in Kores Nate in the Central Provinces

In October 1914 about one half of the German crw is the open hearth departm it was removed to Ahmedmager and the remainder followed in December necessitating the importation of almost an other is verow who because of the is wand strange conditions could not for some months maintain the average production. The output subsequently improved considerably and the quality is the best in the history of the plant.

The averax' number of employees in 1915 was 7 809 men and women. The number of European covenanted hands was 121 and the number of local European employees 5. The base of lobour is Indian. In addition to the labour employed at Sak'hi mentioned above the Company gives employment to approximately 0,000 labourers at its vanous collieres. The above figures do not include the employees of contractors engaged in the work of improvements or extensions.

The two new open hearth furnaces just sanc tioned will increase the capacity of the steel works by about 6 per cent

The Take Hydra Herciric Power Simply Consists, 1915 Hydra Herciric Power Simply Indicated, was bonded in Navamber, 1915 with the friendly encouragement of the Herciric Revenuent, to exploit the possible at the Western thats, 90 miles distant the Medicate State of the Herciric Herci supply of electricity in Bombay conferred upon Stephy of electricity in hombey conterred upon Homes Derabij Januetji Tata and Buttonji Zamestji Tata by the Government of Bombey in March, 1907 The kioense applies to the town and Island generally but excludes every can tonkent, fortress arsenal, factory dockyard camp building or other place in the occupation of Government for naval or nollitary purposes The heanse, including all rights and concession

or to tentiative for naval or initiary phriposes. The heates, including all rights and concession heddicated to it was transferred to the company for the turn of Rs. [25,0,000 in [1,250 fully pead up ordinary shares of the company Capital surbortsed—Rs. 2000,000 (Or dinary shares—Rs. 1,00,000 000 Perference hares—Rs. 1,00,000 000 Perference Rs. 1,00,000 Perference of the pead of the first of the first of the company shares—Rs. 75 90,000 has been issued—Rs. 75 90,000 has been issued—Rs. 200,000 for the company accepting the strong the exception of overy Director of the company accepting the strong the process of the holding of shares in the company of the some strong of Rs. 200,000 has a south of Rs. 200,000 has a somemay of the normal value of Rs 30 000 steems Take Sons it Co. the kinnaging Agente of the postpany are appointed as such for a serm of 12 years, from the date of the reputrative of the company and it is provided that fixing such time as they are Managing Agente than assember of their firm, shall be excepted a fixing such time as they are Managing Agente than a second the company and thail also be available the Chairman of the Director. Fur thee, so long as Mesers Tata hold shares in the capital of the company to the nommal value of Rs. 6 60,600 they have the right to appoint a second Special Director, whether a member of their firm or not Further every share believe the company holding in he over right shapes at the right to appoint a Because of the company holding in he over right shapes at the right to appoint a Director, to seems we such Director and to appoint another in his piace. Similarly the debenture holders have the right to appoint a Director, to remove such Director who is not of India may state the approval of the Directors appoint any state the approval of the Directors appoint any design and Director to be an alternate Director and the first many of the Directors of the Director of the Directo

sary qualified person to be an alternate Directors which is a steen out of India The following are the present Directors— The following are the present Directors— The following are the present of Congress, the Samoon David & Co., Se Shapuri B Broscha Kt (Tullockrainat A Magneys) The Hon Bic Mr. Linbhai Samoi dia, G. I.H., Mr. M. A Tana (of Bhaynagar Sandt), T. J. Blasha (lake of Mysors State), The Hon Barrie (of Records State), The Magney Crist Sons & Co., Mr. B. D. Linbhai (lake of Mysors State), The Magney Crist Sons & Co.), Br. Victualiza Directors of Co., Mr. Mayetten Mysory Modies Sons & Co., Mr. Mayetten Mysory Modies Sons & Co., Mr. Mayetten Mysory Goodless (Co.), Mr. Mayetten & Co., J. and Mr. A J. Big. Magney Broadsa & Co., J. and Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And Mr. A J. Big. Mr. And M

beight the water develops a pressure of 750 lbs per square inch and with this force drives the Turbines or waterwheels Originally the Com pany started with a subscribed capital of Rs 1 20 00 000 and the Scheme was restricted to 30 000 Electrical Horse Power but the Com pany in 1912 in view of the increased demand of Power from the Bombay Mills decided to extend the Works by the building or the Sur awts Dem and baned further shares which were allotted at varying premiums the total obtained being placed to reserve the repacity of the Scheme being increased to more than 40 000 Electrical Rorse Power

Interest at the rate of 4 per cent per snoum is being paid with the consent of Gov ernment to shareholders of both Ordinary and Preference shares during the construction of the company's works as a charge against capital (This payment may not extend beyond the chose of the half year next after the half year during which the works of the company are actually completed )

The works were formally opened by H & th Governor of Bombay on the 8th Tebruary 191 and on the following day a start with the supply into Bombay City was made with two miles taking about 1 400 B H P between them. The taking about 1 400 B R P between them I he tollowing is the state of progress as shown by the latest official reports of the Compuny I he great construction works above and below ghats have nearly reached completion. I wently mills are receiving power for partial requirements. Load is bring added continuous. ly with due regard to the convenience of the by war due regard of an event energy of the consumers. Arrangements are now being made of mills with motors of the aggregate B H P of 32 "Ob in service. In addition to the cotton and flour mills who have contracted to take supports to the contracted to take supports of the contracted to take sup ply from the company for a period of ten years the company have entered into a contract with the Bombay Llectric Supply and Transways Company Limited for energy required by them for two of their sub-stations and the necessary plant for one of these has been ordered

There remain many prospective buyers of electrical energy and the completion of the compare at all schemes calculating the Shrawtza Lake even up to its full height of 2,162 F S L will barely suffice to meet all such demands.

Bestders the Bombay cotton mills, which alone would require about 100,000 house power, there are the transways with possibilities of substrban are the framways with possibilities of suburban extensions. Then there is the Port Trust with its docks and zalways in addition to the two large main line reflexy con-panies with difficult teaching power Modern their warhings requiring power Modern graction has so constant wity proved the beauties

of the electric drive that it is a sate thing in the vicinity of Bounbay phasesting advantages to predict a large demand for electrification in similar to their present achieve. The spect from total demand is roughly estimated at about 160 000 hp and the company and he has been necessarily in discovering other valleys in the Ghale which are highly promising. With the sanction The full capacity of the company's present takes cannot possibly meet such a large demand and in the hope of supplying it at some future date it was necessary to go further affect and find fresh sources of power which could supplement the present capacity and also serve as a standby in case of need. The Moard having accepted this view it was resolved to ask a responsible officer to carry out investigation of new areas on the ghats for the Moard having accepted this view it was resolved to ask a responsible officer to carry out investigation continued to meet a supplement to need a responsible officer to carry out investigation continued to result of the prospective demand for energy. Suitable attest pastions with a view to finding a suitable site made available on a highly satisfactory basis

# The Oplum Trade.

The descriptions of optum must be distininguised. Sensel optum which is manufactured property grown in the United Provinces and sense optum which is almost entirely produced in certain Native States in Central produced in Central Native States in Central

in the Department of poppy is any permitted under Heave. The cutifvator to select a dvances are made by Government is select a dvances are made by Government is of selected in reduction to the Opium Hackory at the production to the Opium Hackory at a rate fixed by Government, new Rs 7/8 per seer of 7/9 consistency. The been much reduced as a consequence of the agreement between the Government, and is now reachied to the United Provinces. The following are the figures of the area under cutifvation and of production.

<u>-</u>	Average under cultivation	Maunds of opvices produced	Number of chests made
1011-12	200,672	31 479	23,126
1910-11	362 868	44,928	23 611
1909-10	354 577	67 565	86 172
1908- 9	861,832	61 803	28 895
1907- 8	488,548	71 340	51,230

At the Factory two classes of epium are manu factured

(1) "Provision" opsim intended for export to foreign sometries. This opsim is made up in halfs or cakes each weighing 3 5 lbs. 70 cakes weighing 140 bbs. belong packed in a cheet

(1) Exche oprum intended for consumption in British India This is made up in cubic packets such weighing one near 60 packets being pasted in one chest. It is of higher consistency than "provision" ophim.

Prevision opium is sold by public and than is Calcutta, the quantity to be sold being dated by Government This quantity has been reduced in recent years in accordance with the agreement with China, the figure being 15,440 chests in 1911 and 5 700 chests at 1912 Experts to China have been stopped altegether since 1913.

# Statistics of Traile.

The difference between the cost of manufacture and the price realised at these sake may be required as the duty levied by Government —

	Number	Average price	Average
	of	realised at	cost of
	chase	emotion sales	manufacture
	wid.	per chest	per chest
1914-12 1914-13 1908-16 1908-16	26,330 27 560 62,300 65,300 65,300	2,790 2,890 1 512 1 380 1,850	526 515 525 525 508

The exports of Bengal optim to foreign countries have been in recent years —

Number of chests Value

Number of cheate
1913-14 9151 Re. 20188 000
1912-13 19,824 5,096 69 940
1911-12 24 162 671,48,206

Malwa Optum — The poppy from which Malwa optum is manufactured is grown chiefly in the Native States of Indore, Gwalior Bloopal, Jaora, Dhar, Rutiam Mewar and Kotah The British Government has no concern with the cultivation of the poppy, or the manufacture of the optum hat it used to regulate before exports to China were stopped under the system explained below the import of Malwa optum into and the transport through its territories. As the chief market for Malwa optum was China, and as the States in which the drug is produced had no access to the sea except through Britash territory the British Government were able to impose a duty on the importation of the drug.

on its way to Bombey for expectation by sea.

No statistics of cultivation or production are available. The propys is sown in November, the plants flower in February and by the end of March the whole of the optime has been ool lected by the cultivators who sell the raw optum to the village benkers. It is then bought up by the large dealers who make it up into balls of about twelve ounces and store it until it is ready for export usually in September or October. The optum is of 90° to 95° con astenoy and is packed in half chests con adversible dryage took place in the case of new optum while transported to Bombay.

To enable Malwa opmun to reach Bombay as peas from the Opium Agent or his Deputies, was required. This pass was not granted until the duty imposed by the Government of India has been paid. This pass was not granted until the duty imposed by the Government of India to Richard 1990 in that year consequent on the introduction of a system similar to that applicable to Eengal opium. Under this system the Collector of Customs, Bombay sold the right of exporting oppun to the highest blider at monthly auction sales. On payment of the right of exporting oppun to the highest blider at monthly auction sales. On payment of the purce bud and of duty at the enhanced rate the brider was given a certificate authorisms him to import opium from Malva. The number of chests fixed for export in the year 1913 was 14 890. But out of these only 2,755 were exported during the year owing to the large accumulation of stocks in China markets Bales of Malwa opium or export to that country have ceased alnoe January 1913 and the twee has become extruct since 17th December of that year when the last shipment was made

Practically the whole of the Maiwa ophim exported from Bombay went to China There is no market for it in the Straits Settlementa. A few cheets annually are shipped to Zanzibar The quantity and value of exports from Botzbay in the last three years were as follows—

	Quantity		Value
1918-14	2.765 chesta	Ba.	1 49,02,500
1912-13.	11.2051		5.35.11.233
1911-18	11,305		6,35,11,283

5,124 592 1 624 678

1914-15 1 506 100 (Revised Estimate) 1 798,000 (Budget Estimate)

Acreement with China — The fluctuations in the revenue derived from option are directly in the revenue derived from optim are directly attributable to the trade conditions arising out of the limitation of optim exports in 1907 being satisfied of the genuineness of the efforts of the Chinese Government to suppress the babt of consuming optim in China, the Government of India agreed to suppose the name of consuming opium in the Government of India agreed to co-operate by gradually restricting the amount of opium exported from India to China In 1908 an arrangement was concluded by which the total quantity of opium exported from India was to be reduced annually by 5 190 chests from India to the most complete relief, the Government of India undertook to purchase for its own was to be reduced annually by 5 190 chests from India to the suppose of the total quantity of opium exported from India undertook to purchase for its own was to be reduced annually by 5 190 chests. Under a further agreement, signed in May 1911 the cessation of the trade was to be accelerated on evidence being shown of the appression of the

Received—The revenue derived by the Government's production of options in China, and he amounted to India from opinm in the last six accordance while this agreement is further leady years is as follows—

1911-12 5 961.278 the price of the drug in China and a corresponding rise in the price of the drug in India at the price of the drug in China and a corresponding rise in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in the price of the drug in another same for some connectance when many many cover, in 1912 the trade in China was paralyshed by the imposition by Provincial Government in defiance of instructions from the Control Government of restrictions on the importation and said of Indian opium. Stocks scounsiated rapidly at Shanghai and Rongkong and the position in December 1912 had become so south that a strong and influential demand was made on the Government of India to reheve the offuntion by the suspension of sales Sales were as-

# HIDES. SKINS AND LEATHER.

India a local manufactures of skins and leather have steadily increased in recent years. Thus the exports of raw hides and skins has risen from £5 559 103 in 1908-09 to £7 845,484 in 1912-13 and the exports of leather from £2.761 169 to £3.082.498 in 1912-13 Previous to the outbrisk of war the trade in raw hides in this country was good there was a large demand for hides and prices ruled high While in the continental markets stocks were high owing to overtrading in the provious year the United States had a shortage which avan estimated at approximately two million pieces.
On the declaration of war the trade which had up till then been brisk was seriously dislocated Exports to en my countries (specially to the great emporium of Indian hides Ham burg were stopped and exporters had to find new mark to for the raw material. The raw hide business of Indus it is well known has hithorto been largely if not quite entirely in the hands of German firms of firms of German in the hands of German hyms of myms of Germany has had the largest share of India's raw hides In the four months before the outbreak of war she took 39 per cent of the total exports In 1912 13 she took 32 per cent and in 1913 14, 82 per cent Raw hides were exported to Trieste in consi-

in value to Rs 41 crores. Madras porte accounted for 74 per cent of the total experies of tamed hides and 83 per cent of skins dress-ed or tamed and practically the whole of the remainder was shipped from Bombay

The trade in hides and skins as also the craft. in leather manufacture are in the hands either of Mahomedans or of low costs Hindre and of Maltomedans or of low casts thindus and are on that account participated in by a com-paratively small community. The traffic is subject to considerable functuations concomitant with the vicisativides of the seasons. In famine years for instance the exports of untamed hides nee to an abnormal figure. The traffic is also peculiarly affected by the difficulty of obtaining capital and by the religious objection which assigns it to a position of degradation and neglect it has thus become a monopoly within a restricted community and suffers from the loss of competition and popular interest and favour

origin Germany has had the largest share of India's raw hides in the four months before the outbrak of war she took 39 per cent of the total exports In 1912 13 she took 32 per cent and in 1913 14, 85 per cent took 32 per cent and in 1913 14, 85 per cent took 32 per cent and in 1913 14, 85 per cent derable quantities whence they were taken to dermany or Austria In the four months before the outbrak of war 15 per cent of India a exports peased through Trieste in 1914 15 the percentage was 21.

The year's experts of raw bides in 1914 15 declined from 56 787 teas valued at Es 84 corres (515 millions) to 25 68 tens valued at Es 64 corres (515 millions) to 25 68 tens valued at Es 64 corres (515 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions). The capture of the throughout the part of the corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions). The total at the 51 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions). The total at the 51 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions). The total at the 51 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions). The total at the 51 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions). The total at the four months to 55 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions) to 55 68 tens valued at Es 65 corres (525 millions)

کنو د

The state of the s Companies and some are national and the companies and contrivances hides that are extensively cured and tanned a Seather worked up in response to an

innerse, though purely local, demand. But the interior quality of the leather so used by effect methods may be linearized by the fact that the articles produced rarely fetch menh more than one-fourth the value of the corresponding articles made of imported or Cawapore (European factory) leather

#### WILD BERDS' PLUMAGE

The Bill for prohibiting the importation into England of wild birth plunage, which was introduced into Parliament in 1913, was the cooksion of a flerce contenversy on the nature of the pinmage traffic. But organised opposi-tion to the Bill falled to convince the public that the plumage trade was not one of great cruelt; Among well authenticated cases from India that prove its cruelty was one from Karachi, in that prove its creety was one from Aracon, in 1933 in which two men were fined for sewing up the eyes of birds so that they should not right in their cages. It was stated that this was a common practice of fishermen in Sind who treed birds and export their feathers to England. This according to The Tunes, is ranguard. This according to The Tunes, is not only another a parent example of the way in which the problibition on the export of plumage from India is notoriously evaled by smuggling into the open market of England, but show easily abose might arise under any system which gave a general sanction to feather farming All legitimate methods of breeding birds for an regularizate motinois of preeding birds for their piumage can be safeguarded as definite exceptions under an Act prohibiting imports their and only the exclusion by law of all plumage not se specified can put England plumage not se specified and of her own daughter Doughdons in the suppression of a Our bursts industry

Planmage birds —The birds most killed on assourts of their plumage in India are paddy bilds, kingdishers, bustards, junglefowl, egrets phinamats, paroquets, pentowi, and hoopes. Torhaus the most extensively killed in the past has been the Ber Jay (Oracolas India). The smaller Egret in met with throughout Tast and Northern Burms. It is a pure white sites heren white develops during the smaller Egret of features the second of the seco white such heron which develops during the preeding assorn a dorsat train of feathers, which elongates and becames "decomposed" as it is expressed that is to say the barbs are educate and distinct from each other, thus broating the creamental plane or algorite for which these birds are much sought after and qualitatively distinguished. Thirty years ago the exports

were valued at over six lakhs in one year but since 1895 the export trade has steadily diminished until now it is almost non existent

Legislation —Indian legislation subject will be studied with interest by those who have followed the course of legislation on this subject in other constries. Until 1887 no legislation was considered necessary in India An Act of that year enabled local governments and municipal and captonment, authorities to and numeries and cancomment accounts of make rules problibiting under penalties the sale or possession of wild birds recently killed or taken during their breeding seasons and the importation into any municipal or cantonment area of the plumage of any wild birds during those seasons and local governments were empowered to apply these provisions to animals other than birds

Afterwards, in 1902 action was taken under the Sea Customs Act to prohibit the exportation of the skins and feathers of birds, except feathers of ostriches and akins and feathers exported sons fide as specimens litustrative of natural his tory Act VIII of 1912 goes much further than the previous law It schedules a list of wild birds and animals to which the Act is to apply in the first instance enables local governments to extend this list, empowers local governments to establish close times presumently during the breeding seasons in the whole of their territories or in specified areas for wild birth and animals to which the Act applies and imposes penalties for the capture sale and purchase of birds and animals in contravention of the close time regulations, and for the sale purchase and possession of plumage taken from birds during the close time. There is power to grant exemptions in the interests of scientific research, and there are savings for the capture or killing by any person of a wild animal in dedence of himself or of any other person, and for the capture or killing of any wild bird or animal in bona fide defence of property

#### BREWERIES

Striketics compiled from official returns show the first process of the

and the average purchases in the five years

In 1814 Indian investories produced coarty 21 1902-1907 amounted to 2,675-516 gallons making gallons against 3 6 million gallons in 1913 Imports during 1914 15 amounted to contracts with Indian brevetian 1904, the 25 million gallons as against over 41 million gallons in the privious year.

A substantial quantity of beer produced free to make its own arrangements to obtain foodly is consumed by the British troops in India In 1907 the Army Commissariats purply as a result the figures that the production and the average purphases in the five years.

#### GRAIN ELEVATORS.

The question of adopting elevators for the handling of Indian grain has sugaged attention for some time and has assumed increased im portance in the light of the railway congestion experienced in recent years and more parti-oularly in the grain season. In the last three outanty in the gram season in the last three years great studes have been made by other countries in the adoption or perfecting of the elevator system and a large mass of contemporary data on the subject has been brought together by the Commercial Intelligence Department. Since the subject is one that can not receive adequate consideration in India till the facts are before the public these have been embodied in a pamphlet entitled Indian Wheat and Grass Riemdors by the late Mr. F Noel Paton Director General of Commercial Intelligence to the dovernment of India The work gives full particulars regarding India s production of wheat and shows that less than on eighth of the crop is exported. It describes the conditions under which the grain is held and the right sthat it runs. It is notated

out that the cultivator has no adequate means of preserving his wheat and that he is constrained to sell at harvest time also that the prices then obtained by him are considerably lower than those usually current in later months The constant nature of the European demand is explained and an attempt is made to gauge the probability that the enormously increased quant ties of wheat to be expected when new irrigation tracts come into bearing would be accepted by Europe at one time and at a good price or could be economically transported inder a system in which a few months of con-gestion siturnated with a longer period of stag-nation. Figures are given who suggest that in practice the effect of equipping railways to do thus to intensity the will and so to u-gage in a vicious circle. The author explains the structural nature of dievators and their functions as constituted in other countries Particulars are given as to the laws that govern their operations in such countries

#### TRADE MARKS

The Indean Merchandise Marks Act tions under the Act during the twenty years (IV of 1889) was passed in 1889 but its operation ending 1912 13 has been in the earlier years was restricted especially in Calcutta, in consequence of the lack of adequate Contons machinery for the examination of goods In 1894, with the introduction of the present tariff, the Customs staff was strengthened for the examination of goods for assessment to duty, and this increase enabled examination to be made at the same time for the purposes of the Merchandrie Marks Act. The Act was to be made at the same time for the purposes of the Merchandist Marks Act. The Act was intended originally to prevent the franculemt sale of goods bearing false trade marks or false trade descriptions (as of origin quality weight or quantity) While the Act was before the beginstore a provision was added to require that all prece-goods should be stamped with their length in yards. In this respect these foods are an exerction, for the Act does not consider the second are an exerction.

Average or the nve years ending

1897 98 1 896 1902-08 1.11 1907-08 1.198 1912-18 1.060

Detention is but rarely followed by confiscation, and there have been only 109 and cases during the stated twenty years. Usually, drianed goods are released with a fare and this procedure was followed in 19,392 cases out of the 29.774 detentions ordered in the same period in 1984 cases the drianned goods were released without the indication of a fine. In this period of twenty years 42 per cent of the detentions were engount of the another tree of detentions were on account of the another tree of In this period of twenty yours we production of detentions were on account of the application of files trade marks of false trade descriptions goods are an exception, for the Art does not be because the order to warm to the case while was extend to be assembled to the case of the In 36 per cent of the cases detention was ordered

#### INDIAN COMMERCIAL CONGRESS

A proposal was recently made by the Hon ble Sir Festiblesy Currimbiles for the holding of periodical conferences of representatives of the neveral Chambers of Commerce in India. The suggestion was taken up by the Indian Mer chants Chamber and Bureau in Bombay and that body forwarded to the several (hambers of Commerce and Commercial Associations a Draft Constitution of the proposed Indian Commercial Congress The objects of the Congress are stated as follows—(1) The Indian Commercial Congress is founded for the purpose of promoting by all legitimate and constitutional methods the best interests of trade conneces and manufactures of the country and all co-nate matters connected therewith. (\_) For the fulfillment of the objects aroresaid the tongress. shall hold its session from time to time as occasion may demand but at least once every may be determined discuss all morantile and industrial affair prepare and submit it present-ations thereon to the Trouncial Governments of State or the Bittish Parliament or other authoritim for the removal and prevention of in arrows commercial measures and the introdution of others which may be edeulated to promote the gund commercial and other rogante interest of the country and others to take so has tion a may be embasive to the

accomplishment of the objects in view Congress is to consist of delegates from such Congress is to consists of delegates from such thambers Associations etc. throughout India as may be recognised in that behalf by the congress in open seasion and these delegates shall elect a Committee of Management on which proportional representation (not yet specified) shall be assigned to principal commer ual centres (numerated The President and Vice-President are to be appointed by a Special Committee appointed by the Congress in open \*(SetOn

In November it was announced that the first meeting of the Commercial Congress would be held in Bombay on December 20 A circular summarising the progress already made points out that while the original idea was to held the Commercial Congress (there annually or bi annually this has developed into a project to give the movement a more concrete tangular and permanent form by the establishment of a Chamber which will be the chambers of commercial appoil chains as of commercial assessing attors and be fully a presentative of their list acts. Thus all the leading commercial sussociations in Bombay were run ested in the Reception Committee of the first Courters and it was not in viga sed and jurculated a draft const. tution of the proposed A sociated Indian them but of Commerce. The session was held on the ruber with and wit

#### INVENTIONS AND DESIGNS

The Inventions and Drugus Act (No VI) applications—some 60 or 70 a year—came of 1888 was a placed by the Inuian Patrics and Designs Act (No II) of 1911 which came into force on the 18t January 1912. The obleot of the Act was to provide a simpler more direct and more effective procedure in regard both to the grant of patent rights and to their subsequent existence and operation. The changes made in the law need not here be referred to in detail. They gave further protection both to the inventer by providing that his application should be kipt secret until acceptance, and to the public by mercasing the facilities for opposition at an effective period. At the same time a controller of Patents and Designs was established with spower to dispose of many units or provincial referred to the Governor General in Council and provision was made for the grant of a scaled patent instead of for the mercecognition of an exclusive privilege. The both to the grant of patent rights and to their recognition of an exclusive privilege. The provisions of the Act follow with the necessary modifications those of the British Inventions and Designs Act of 1907.

The records of proceedings under the Act

ni 1888 show a steady though not very rapit increase in recent years in the number of applications for leave to file specifications. The number of applications released from 524 in 1892 to 807 in 1911 and the number of spedication, filed (i.e. of exclusive letters) required from 375 to 605. The total number of applications under the Act up to the end of 1911 was 11 679 as the result to which 9 113 specifications were filed. The number of packets in force at the end of 1911 No of designs registered was 2.917. Only a small proportion of the Income from Fees.

was sought was very wide inventions connect and with rallways, electrical contrivances and themsal appliances and preparations being most numerou.

The latest statistics are dable for the sent

912 are as follows	
Inventions	
o of applications received for laye to	
file a specification	678
o of aprinfications filed	354
patints si alcd	284
ubject of applications	
I be legander miller e hellen	Ն
To strad	3)
Harlants	07
Lamps and Burners	16
Electrical Contrivances	4
Spinning and Weaving Machine s	
Water lifts and Pumps	21 17
Sugar-canc and other Vills	
Chemical Appliances and Prepara	- 1
tions	-10
	10:
Tri atment of metals	20
Improvements in Building and	
Building Waterlais	2'
Flying Machines	
1 alking Machines	10
Others	280
Designs.	
to of applications for registration of	
copyright in a design	34

# Coinage. Weights and Measures

As the currency of India is based upon the and Bombay may be thus expressed one manual Topes, statements with regard to money are 40 seems one seer—16 chitaks or 80 tolas generally expressed in rupess nor has it be a The actual weight of a seer varies greatly from found possible in all cases to add a conversion into sterling. Down to about 1879 the gold raine of the rupes (containing 16, grains of pure silver) was approximately equal to 2s or one-tenth of a £ and for that period it is easy to convert rupes into sterling by striking off the final cipher (Bs 1000=107) But after 1873 owing to the depreciation of silver as compared with gold throughout the world, there came a seriou and progressive fall in the cretisings, until a one time the gold value of the rupes dropped as low as Is. In order to provide a remedy for the heavy loss caused to the Government of India to respect of its gold payments to be made in Engined and also to relieve foreign trade and finance from the inconvenience due to constant and un forcesen fluctuations in exchange it was renormal nuctuations in exchange it was re-solved in 1893 to close the mints to the fre-colonge of silver and thus force up the value of the rupee by restricting the chromation The intention was to raise the exchange value of the rupee to 1 4d and then introduce a gold standard at the rate of Rs 15=£1 From 1899 onwards the value of the rupce has been maintained with insignificant fluctuations maintained with insignificant fractuations at the proposed rate of is 4d and consequently since that date three rapes have been equivalent to two rapers before 18"3 for the intermediate period between 187 and 1890 it is manifestly impossible to adopt any fixed sterling value for a constantly chaosiful rupe. But since 1990 if it is defined to convert rupe as into striling not only must the final differ be struck off (as before 1873) but also one third must be sultracted from the sult Thus Bs 1000=100-1=60 ut 267

Notation.—Another matter in connection with the expression of monty statements in terms of rupers requires to be explained the method of numerical notation in India differs from that which prevails through set Europe Large numbers are not punctuated in hundreds of thousands and millions but in lakhs and crores A lakh is one hundred thousand (written out as 110 000) and a crores the cross product of the control of the contr is one hundred lakh or ten millions (written out as 1 00 00 000) Consequently according to the exchange value of the rupeo a lakh of rupees (Rs 1 60 600) may be read as the equivalent of £10 000 before 1879 and as the equi valent of (about) £8 657 after 1899 while a crore of rupes (Rs. 1 00 00 000) may similarly be read as the equivalent of £1 000 000 before 1874 and as the equivalent of (about) £680 607 after 1899

Coinage —Finally it should be mentioned that the rupee is divided into 16 annas a frac tion commonly used for many purposes by both Natives and Europeans The anna was formerly reckoned as 11d it may now be considered as (vacity corresponding to 11 The anna is again sub divided into 12 ples

Weights -The various systems of weight weights—the variable uniformity of scale with immense variations in the weight of units. The scale used generally throughout Northern India, and less commonly in Hadras.

All seems one seer—16 chitaks or 80 tolay. The actual weight of a seer varies greatly from District to District, and even from village to village but in the standard system the tola is 180 grains Trov (the exact weight of the rupee) and the seer thus weights 2 0 7 lb and the maund 82 b lb The standard is used in official reports

Retail.—For calculating retail prices the universal custom in India is to express them in terms of are to the rupee. Thus, when prices change what varies is not the amount of money to be raid for the same quantity but the quantity to be obtained for the same unbount of money ty to be obtained for the same uniount of money in other words priess in India are quantity prices not money prices. When the figure of quantity goes up this of course means that the lines agont down which is at first sight perplicing to an Langlish reader its may perplying to an English reader It may however be mentioned that quantity prices are not altogether unknown in England espemany greerics can be bought legs fixewho are commonly sold at a varying number for the shilling If it be de ired to convert quantity smining II to do fird to convert quantity prices from Indian into English denominations without having recourse to money prices (which would often be mid adin.) the following scale may be adopted—based upon the assumption that a siris exactly 21b and that the value of the ruper remains constant at 1s 4d 1 seer per rupe=(about) 3 lb for 2s 2 serra per rupe =(about) 6 lb for 2s and so on

The name of the unit for square measure ment in India Legerally is the bight which varies at atly in different parts of the country But areas have been expressed in this work either in square miles or in acres

Proposed reforms.—Indian weighted measures have never been settled upon an organised basis suitable for commerce and statistic of the modern age. They trade characteristic of the modern age. They vary from town to town and village to village in a way that could only work satisfactorily so long as the dealing of t was and villages were self-contained and before roads and rail ways opened up trade between one and the other. It is pointed out that in England a hogshad of wine contains 63 gallous and a hogshead of beer only 54 gallons that a bushel of corn weighs 46lbs in Sunderland and 240lbs in Cornwall that the English stone weight of corn weighs 460bs in Sunderland and Mores in Cornwall that the English stane weight represents 141bs in popular estimation but only 51bs if we are weighing glass and night for meat but 6 lbs for chorse Himilar instance are multipled in India by at least as many times as India is bigger than England If we take for instance, the maind denomination of weight common all over India we shall find that in a given city there are coverly as many mainds as there are articles. india we shall find must in a given city shere or orally as meny munda as there are articles to wigh. If we consider the manned as between district and district the state of affairs is wors. Thus in the United Provinces alone the manul of sugar weighs 48; seers in Cannors 40 in Mottal, 72; in Gorakhpur 40 in Agra 50 in Motsadabad 43; in Saharanpur 50 in Barelly 48 in Fyzabad 48; in Shah jehanpur 51 in Goshangunge The manad can be throughout all indis from the Bengal because Association and the Dodmal Association and the Potential Association and the Romand of 82 2/70s to the Factory custom respectively at different times that meand of 281s. which apparently answers system should be introduced Both proposals to the Forest Department mannd in use at the fail to meet the special requirements set forth Freel Depot and the Madras maund which by the Bombey Committee Variations of some authorities estimate at 201s and others them which have been put forward by different at 24lbs and so on

Committees of Inquiry —These are merely typical instances which are multiplied indefinitely. There are variations of every detail of weights and measures in every part of India fhe loses to trade arising from the confusion and the trouble which tilds state of things causes are heavy Municipal and commercial cames are neavy municipal and commercial bodies are continually returning to the problem with a view to devising a practical scheme of retoin. The Supreme and Provincial Gov emments have made various attempts during 40 years past to solve the problem of universal unite of woights and measures and commerce and trade have agreted about the question for the past contury. The Indian rallwave and Government departments adopted a standard tola (180 grains) seer (80 tolas) and maund (40 seers) and it was hoped that this would act as a successful lead which would gradually be followed by trade through which out the empire but the expectation has not

The Government of India considered the whole question in consultation with the provincial Governments in 1890 1894 and various special steps have at different times been taken in different parts of India. The Government of Bombay appointed a committee In 1911 to make proposals for reform for the Bombav Presidency Their final report has not been published but they presented in 1912 an ad enterim report which has been season for public discussion. In brief it point out the practical impossibility of proceeding by compulsory measures affecting the whole of India The Committee stated that over the greater part of the Bombay Presidency a standard of weights and measures would be heartiy welcome by the people They thought that legislation compulsorily applied over large areas subject to many diverse conditions of trade and social life would not result to bringing about the desired reform so success based on practical experience The want of coherence savour fairs of the means of co of coherence amous fairs of the means of co-operation among the people at large pointed to this conclusion. The Committee pointed out that a good example of the results that will follow a good lead is apparent in the East Khandesh District of the Presidency where the District Officer Mr Simcox gradually during the course of three years, induced the people to adopt throughout the district uniform weights and measures the unit of weight in this case heavy at the of 180 grafus. But In this case being a tols of 180 grains flut to trying the committee abstanced from recommending that the same weights and measures should be adopted over the whole Presidency preferring that a new system started in any such forming that a new system started in any such beautiful to the president of the representations of the commissions of the commissions of the commissions.

aries throughout all India from the Bengal Measures Association and the Docimal Asso bodies in India in recent years are that the nouses in india in recent years are that the English pound weight and the English hundred weight should be adopted as the unit of weight for all India. The argument in favour of the importation of an outside until in this manner is that people in India will always associate with a given familiar denomination of weight or measure the value they have been accus to measure the value they have been accur-tomed to consider in regard to it but that if a new weight were introduced they would learn to use it in dealing with their neighbours without the interference of anything recembling prejudice at what they might regard as an attempt to tamper with their old traditional sundards of dealing

> Committee of 1913 — The whole problem was again brought under special consideration by the Government of India in October 1914 when the following committee was appointed to inquire into the entire subject anew -

Mr C A. Silberrard (*President*) Mr A Y G Campbell Mr Rustomji Farddoonji

Tide Committee reported in August in favour of a uniform system of weight to be adopted in India based on the 180 grain tola like report says.—Of all such systems there is no doubt that the most widespread and best known is that known as the Hengal or Indian Railway weight: The introduction of this system involves a more or less considerable change of system in parts of the United Provinces (Gorakhpur Bacilly and neighbouring areas) practically the whole of Vadras parts of the Unipab (ural portions of Amritsar and neighbouring districts) of Bombey (South Bombay Bombay elly and Gujarat) said the North West Frontier Irovince Burma has at present acceparate by the of the own which the commuter think it should be primited to retain The systems recommended are known is that known as the Bengal or Indian retain. The systems recommended are

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FOR INDIA
  8 khackluse
                                 = 1 chawai
  8 chawals
                                 _ 1 rattr
  8 rattis
 12 mashes or 4 tanks
                                 = 1 tola
  5 toles
                                 - 1 chatak
 16 chataks
                                 = 1 seer
                                    1 maund
 40 вестя
                 FOR PURMA
  2 small vwcs
                                 = 1 large vac
  4 large haves
                                    1 pc
                                    1 mn
  2 pes
  5 pes or 21 mma
                                    1 mat
  1 mat
                                    3 ngamu
2 ngamua
100 t<sub>1</sub>kale
                                 - 1 tikal
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Proposals from Engineed.—Suggestions referred to the Provincial Governments for been made by the British Weights and their consideration

# Legislation and Inspection

The conditions of factory labour until 1918 were regulated by the Indian Factories Act of 1881, as amended in 1891. The chief provisions of the amended Act were Local Governments were empovered to appoint inspectors of factories and certifying surgeons to certify as to the age of children A mid-day stoppage of work was prescribed in all factories except those worked on an approved system of shifts, and Sunday labour was prohibited subject to certain exceptions. The hours of employment for women were limited to 11 with intervals of rest amounting to at least an hour and a half their employment between 8 pm and 5 a m was prohibited as a general rule except in factories worked by shifts. The hours of work for children (defined as persons below the age of 14) were limited to seven and their employment and their was orbidden children below the age of the was for the forcing of machiner and for the promutigation of rules as to water supply variflation the prevention of over crowding, t.

#### Act of 1911

The declsion to undertake further legislation was arrived at after comprehensive in quiries. An important factor in the case was the increasing use of electric light in the Bombay Mills which radically changed the conditions prevailing when the Act of 1891 was passed and had abolished the security that operatives would not be employed for more than 12 bours a day on the average. The question of the bours of employment in textile factories was brought into prominence by the period of prosperity that the cotton industry began to enjoy in the cold weather of 1904 to a large number of persons operatives being regularly worked for 15 bours a day or even longer.

Owing to complaints regarding the long hours worked in many mills the Government of Indus m 1908 appointed a small Committee with Commander six H P Freer-Sm th k.\

Industry a small committee with Commander six H P Freer-Sm th k.\

Industry a small committee as relationary to the conditions of labour in textile factories. The Committee recommended that the working hours of adult makes should be limited to 12 hours a day that certificates of age and physical finness should be required prior to half time employment and prior to employment as an adult that night work of women should be prohibited, and that whole-time Medical Inspectors should be appointed.

The conclusions of this Committee formed the basis of an investigation extending to all factories in India, by a representative Commission This report disclosed the existence of abuses particularly in connection with the employment of children and the excessive tile factories. The majoritives generally in textile factories The majority of the Commission deprocated a statutory limitation of the working hours of male adults. But they recommended the formation of a class of young persons between 14 and 17 years of age, whose hours should be limited to 12 and con-

The conditions of factory labour until 1913 sidered that this would indirectly secure a were regulated by the Indian Factories Act 12 hours day for male adults. They also recoil 1881, The chief provisions of the amended Act were Local Gov commended that the hours of work for children commends were empovered to appoint inspectors of factories and certifying surgeons to the age of children A mid-day being prohibited for both classes. They restoppage of work was prescribed in all factories except those worked on an approved as to age and physical fitness.

#### Hours fixed

The recommendations of the Committee and of the Commission having been comidered by the Government of India and the Local Governments, a Bill was introduced in July 1908 to amend and consolidate the law relating to factories, and was finally passed into law as Act XII of 1911

The new Act extended the definition of factory so as to include seasonal factories factory so as to include seasonal factories working for less than four months in the year, shortcard the hours within which children (and as a general rule women) may be employ ed and further ristricted the employment of women by night by allowing it only in the case of cotton ginning and pressing factories. It also contained a number of new provisions for securing the health and safety of the operative market learnershap many effective and tives making inspection more effective securing generally the better administration of the 4ct. The most important feature o of the 4ct. The most important reasure of the 4ct however, was the introduction of a number of special provisions applicable only to textile factories. The report of the Factory to textile factories The report of the Factory Commission showed that excessive hours were not worked except in textule factories. The Act for the first time applied a statutory restriction to the hours of employment of adult makes by laying down that subject to certain in any textile factors that is the certain the control that twelve hours in any one day. It is also provided in the case of textile factors that no child may be employed for more than six hours in any one day and that feether that have the certain the certai any one day and that (subject to certain exceptions among which are factories worked in accordance with an approved system of slifts) no person may be employed before 5-40 am or affor 7 pm (the new Lmits laid down generally for the employment of women and children) Corresponding limitations are placed on the period for which mechanical or electrical power may be used.

# Factory Inspection

The inquiries of the Factory Commission showed that the then existing system of factory inspection had not sufficed to prevent widespread exasion of the provisions of the factory law This result was attributed to the fact that the number of full-time factory inspectors was very small, the work of inspectors too being to a large extent in the hands of ex-officio inspectors (District Maghstrates Civil Surgeons etc) who as the Commission reported had neither the time nor the special knowledge necessary for the work in Bom bay Presidency where there were three special inspectors it was reported that the Art was on the whole, well enforced. Steps have been taken since to reorganise the staff of whole time in the factories in India and to

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the work of inspecting all the factories in India. It is factory inspection their whole time is given the work of inspecting all the factories in India. It is factory inspection. The District Magis The total strength of the staff is now 14 as to incompared with 6 at the time of the Factory the new Act and other officers may be appointed provinces has at least one mejector. Bombay that inspection by ex-office impectors will having five Except that in a few cases there is to a large extent discontinued of funited officers have duties also in connection with

# FACTORIES INSPECTED UNDER THE FACTORY ACT

Province	Number of Factories working and hable	Average Number of Hands	Number of Persons convicted		Number of Repor		:a
	to be inspected	employed daily	for breach of 1ct	Fatai	Serions	Minor	Total
Bengal	322	3,20 08,	7	54	512	547	1 11
Buhar and Oresta	2ь	23 7	¦	1	38	83	1.22
United Provinces	201	51903	14	4	109	173	2:01
Punjah	2018	32 E6J	4	7	01	196	264
North West Frontier	4	241	•				1
Province Burma	438	0 7.3	1	13	150	180	349
Central Provinces and Bener	47.5	4, 260	59	J	J٦	1.40	172
Madras	268	65 191	3	2	1.	449	466
Bombay	687	259 845	16	30	80	1 176	1,591
Assem	1 18	2,901	, 1		2	2	, 4
Aimer Merwara	Ð	11 996		1	11	125	13'
TOTAL IN 1912	2 654	889,648	104	122	1 010	3,367	4 508

There are no publications from which a somplete statistical survey of the various branches of insurance work in India can be obtained but the official Statements of obtained but the official Statements or Accounts and Abstracts of Actuarial Beports in respect of 70 Life Assurance Companies doing business in British India, published by the Government of India, give much information in regard to Life Assurance Companies subject to the Control of the Deliver Life Assurance. to all the provisions of the Indian Life Assurance Companies Act 1912 and some of those which are partially exempt from the Indian Act on the ground that they carry on business in the United kingdom and comply with the provisions of the British Assurance Companies Act of 1909 It should be noticed that the various pension funds connected with ( overnment services are exempt from the compliance with the Indian Act

from in compliance with the light at the folian act. The olders of the Indian Companies were established in Madras about 80 years ago Bombay has none older than the Bombay Mutual the Oriental and the Bombay Widows Pension Fund which were atablished about 40 years ago Life Assurance seems not to have is an started in Bengal until mich later. and it was not until 1,000 that many Companies were established lither in that Presidency or

chewhere in India

In his introductory note to the official pub It is introductory note to the observables but it dication already mentioned Mr H. G. W. Melkie Actuary to the Government of India, status that the total amount of the investments and other realisable assets of Indian Companies is worth nearly (i) crores of rupies more than two flittles of this however represent the favistpanies, and gives various explanations and
ments of one Company namely the Oriental of
Bombay
Bombay

During the period to which the accounts now published refacts ordinary Life Assurance policies for nearly \$1 crores of repea were issued by Indian Life Assurance Companies and the total sum assured under policies romaining in force at the end of the period was about 22; crores of runees. Over three quarters of this arm was under Ludowment Assurance policies which provide for payment of the sum assured at the end of a stipulated period or at the death of end of a supplication period of at the death of the Life Assumed if it occur previously—thereby making provision against old age as well as against arriv death A comparison of the figures with those of the previous year so far as they are available, indicates a considerable increase both in the arount of increases extendiincrease both in the amount of insurances granted each year as well as in the total sums assured remaining in force at the end of the period

In adulition to the above mentioned sums a considerable number of Life Assurance Policies of the dividing society type were issued Life Assurance business of this nature where Lite Assurance business of this nature where the sum assured is not fixed but depends on the division of a portion of each year's premium income amongst the claims in that period either equally or in proportion to the total of such premiums paid under each is unsound. But it is hoped that the information to be published in the future will convince all those interested of the undesimbility of continuing to issue such policies. 20 Indian companies are known to transact other business in addition to Life Assurance Mr Weikle in the report points out various delects in the accounts of Indian Com-

The following is the h t of British Colonial and Foreign Companies doing business both in the United Lingdom and in India partially exempted from the Indian Act and the classes of busing. In addition to Lake A sprance transacted by them —

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	Name (1 tompan)	Place of Head ()語の		Llft. Annautics	Amplities of r tain (apitalie demption etc	Flr	Marinc Marinc	Personal 4 1 drut and Sick	Fupployers 3 Inbility	Burglary and Fidelity Gua
7	Allien	London			( (	- j	મ	1 1	ŀ	1.7
	Atlan	Lundon		a				i P	ŀ	G G
ā	Commercial Union	Longun	t	d	. •	1	M	P	1	a
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6	Law Union and Rock	Lendon	- 1	æ	] ( )	1		Р )	F	(1
6	Live pool and London	1	- 1		1 1		1			
	and Globe	Diverpool	- 1	Œ	1 4 1	Ī	N	P	ħ.	U.
7	National Mutual	London	- 1	(£	1 • 1		1	1 1		ŀ
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	o <b>an</b> tile	Edinburgh		а	C	F	1		_	
9	Northern	Aberdeen		Œ	1	ŀ	i	P	Ł.	G
10	Norwich Union	Norwich		ı¢	1 5 1	_		1 . !	~.	
11	Phonix	London		16	l û	ŀ	M	P	<u> 16</u>	(4
12	Royal	Tiverpool	Ų	15	ŢĠ	l l	M	P	R	G G
13	Royal Exchange	London		£	1	Ŀ	M	P	r	GF
14	Scottish Union and		- 1				1	P		
	National	Edin burgh	1	4	·	ľ	1	P	R	G-
15	Standard	Edin burgh		14	·			i l		
16	Manufacturers	( unada		a	1. 1		,	L		i
17	Sun of Canada	Canada	- 1	4	'		1	P		i
18	National Mutual of	ì	- Ì		1 .		l .	ì '		1
	Australasia	Australia		a	1 !		İ			1
19	New York	United States	- 1	64	1		1	١,	1	ì
20	China Mutual	Bhanghal		_5 _	<u>'</u> 1		<del>!</del> .			<u> </u>

Years	Мъдпа	Bombot	Bungal	ւույգ	United Provinces, Assun, Ajmer Merena
1839	Mudias familiation (excounts			+ -	
	ed under Section 41 of				
1833	Madras Widon		·		
1847				Christian Matual	
1848	Timmertily C M S				
187		Bombay Mutant			
1874		Orienta		_	
1870		Вотьву Widons	<del></del> =-		
1885 1884	-	Goanese Mutual	• ·	-	
1887					
1888	Mangalore Roman Cutholic 1 B & C I Zoroastmin	1 B t C I Zoroastman			
1880		Bombay Loroastnan		-	
1890					
1891		Unyrat Zoroa frian	Rinda Pro adeat Fund		-
1905		Todien 116.	= =		
1993					Indian Bippire Branch of Rechabites (United
	_		_		
1401					
1807	_				

In II	In the inflowing list the manus of the existing ladies. Me Assurance Companies have been arranged according to the date of establishment trader the Province in which they were established	st the existing Indian Life is costablished	Assurance Companies have b	een arranged according to	the date of establishment
Years	Vadra9	Вошья	Веправ	Pimjab	United Provinces Assau, Ajmer Verwars.
9881		Empire of India		Bharit	
1807					
188					
1900					
1801	_			Vutual II Ip	
1005					
1903			Vorth to Ciruns		
1904		•			
1905					
1906	Coronwald Unived India all India ( nited	All Indie United	National Indian National Co Operative	Co Operative	-
1001			Hudushan to Operative	National Insurance and	-
1908		Вошћал Сце	Eastein India Equitable	Hiladustan (Gajranwala)	General (A)mer Merwara)
1909			Chittagong		
1910			Ben,al Provident	Popular	Атууа (Авзаш)
101		Նորը ( սաաթողով	Star of India Luiversal		
1913			Unique Victoria		_ <del>_</del>
1918		Industrial & Frudential Light of 4 is Provincial Western India East and Western	Light of 4 is Provincial		_
1914				British ludian	

# Chambers of Commerce.

Modern commerce in India was built up by clated Indian Chamber of Commerce which Modern commerce in India was built up by merchants from the west and was for a loustime entirely in their hands. Chambirs of Commerce and numerous kindred Assort ations were formed by them for its protection and assistance. But Indians have in recent years, taken a large and growing part in this commercial life. The extent of their partial pation varies greatly in different partie of India, according to the natural proclivities and genius of different waves. Hembery for the true. of different races Bombay for instance has led the way in the industrial and commer has led the way in the industrial and commer clair open ration of the new India, while Bengal, very active in other fields of activity lags behind in this one Arising from these cir-cumstances we find Chambers of Commerce in Bombey Karachi Calcutts, Madras and other important centres with a insurbership other important centres with a incumentally both Europe an and Indian but alongside these have agring up in recent years certain Asso-clations such as the Bombay Indian Merchants Chamber and Bureau, of which the membership is exclusively Indian These different classes of bodies are in no sense hostile to one another and constantly work in association

The London Chamber of Commerce in 1912 realising the increasing attention demanded by the comomic development of India took by the commine development or main took steps to form an East India Section of their organization The Indian Chambers work harmoniously with this body but are in no sense affiliated to it nor is there at present any inclination on their part to enter into such any mclination on their part to entry into such inclose relationship because it is generally left that the Indian Chambers, can themselves achieve their objects letter and more effectively than a London body could do for them, and on various occasions, the London Chamber or the Rast India Section of it have shown themselves out of touch with what seemed locally to be immediate reculrements in particular matters.

A new movement was started in 1913 by the Hon wir Farulbhoy Curringhoy lbra him, a leading millowner and public cliters of Bombay which promises to lead to great reprovement in strengthening Indian commercial organization. Str Fazulbhoy s original plan was for the formation of an Indian Com necroul congress. The proposal and with ap-proval in all parts of India. The scheme was delayed by the outbreak of war but was carried further last year when it was decided to call a first session of the Congress for the 1915 (brist mas holiday season in Bombay The list of members of the Reception Committee showed that all the important common. [4] associations of Bombay were propared to co-operate actively and it was announced that the (ongress would have presented to it a scheme for an Associated Chamber of Commerce for the whole of Indiaa Chamber of Indian Chambers of Commerce The Commercial Congress will be then a cort of an annual meeting of this Chamber dealing with all the commercial problems from the general point of view Different Chambers will be entitled to bring forward their local questions and the Associated Chamber will consider them provided members representing other Chambers

was propared for submission to the Congress

I The name of the Chamber will be T

ASSOCIATED INDIAN (HAMBER OF COMMERCE The Registered Office of the Chamber will be in Bombay

The objects for which the Chamber is established are

(a) To discuss and consider questions To discuss and consider questions concerning and affecting trade commerce manufactures and the shipping interests at meeting of deligates from Indian (bambers of commerce and (ommercial Associations or Bodies and to collect and disseminate information from time to time on matters affecting th common interests of such Chambers or Associations or Bodies and the commercial manufacturing and ship ping interests of the country

(t) To communicate the opinions of the thambers of Commerce and other Commercial Associations or Bodies se parately or unitedly to the Govern ment or to the various departments thereof by letter memorial deputs

tion or oth raise

(i) To petition Parliament or the Govern ment of India or any Local Govern ment of finite or any local down ment or authority on any matter affecting trade commerce manufacture or shipping

(d) To prepare and promote in Parliament or in the lapislative councils of India both Imperial and Provincial Hills in the intrest of trad comments manufactures and shipping of the country and to oppose mes uses which in the opinion of the thamber are likely to be injurious to those interests

(e) To attain those advantages by unit d action which (ach Chamber or Asso clation or body may not be able to accomplish in its separate capacity

- (f) To have power to establish an office of their in hughand or in any part of British India with an Agent there is order to count to the various Chambers early and reliable information on matters affecting their interests and to facilitate communication between the thamber or individual chambers and the Government or other public bodies and generally to conduct and carry on the affairs of the (hamber
- (g) To organise Chambers of Commerce Commercial Associations or Bodies in different trade centres of the (ountry
- (h) To convent when necessary the Indian Commercial (ongress at such places and at such times as may be deter mined by a Resolution of the Chamber
- (i) To do all such other things as may be incidental or conductve to the above Objects

The draft Articles of Association provide for the management of the Chamber by an Exe-cative council composed of a President Vice-President, and ten other members elected at the approve of them "
The following are the principal paragraphs of a Memorandum of Association of the Associated at the Executive Council to present a report and the Associated Chamber not to exceed one bundred and the Executive Council are given power to duct honorary numbers. There shall be an annual meeting of the Associated Indian Chamber held at Bombay on a date to be fixed by the Executive Council in the month of India at the present time -

The Bengal Chamber of Commerce was found ed in 1884. Its head-quartors are in Calcutta od in 1834. Its head-quartons are in Calcutts of the scotches connected with the trade and commerce of the city are the Royal Exchange the Bengal Bonded Warehouse Association the Calcutta Trades Association and the Bengal National Chamber of commerce The Bengal Chamber is registered with a declaration of m.m.

bership of 200 Its objects are the usual purposes connected with the protection of trade particular in Calcutta There are two There are two classes of members Permanent and Honorary

Morehants bankers, shipowners representatives of commercial railway and insurance companies brokers persons and firms engaged in commerce agriculture mining or manufacture and joint stock companies or other corporations formed for any purpose or object connected with commerce agriculture mining or manufacture and persons engaged in or connected with art, science or literature may be

elected as permanent members of the Chamber A candidate for election as a permanent member whether an individual a firm or a member whether an individual a irm or a folint stock company or other corporation must be proposed by one and seconded by another permanent member and may be elected previsionally by the Committee but that election is subject to confirmation at the that election is subject to confirmation at the next annual general meeting. The subscription to the tunds of the Chamber of permanent members residing or carrying on business in Calcutta is Rs 2.5 per members and that of permanent members residing or currying on business elsewhere than in Calcutta Rs 32 per annum No entrance fee is charged Honorary members are not required to sub-scribe to the funds of the Chamber Officials and others indirectly connected with the trade commerce or manufactures of Bengal, or who commerce or manufactures of Bengal, or who
may have rendered distinguished acrive to
the interests represented by the Chamber
may be elected honorary members by the Com
mitter upon the proposal of any two permanent
members whether members of the Committee
or not Strangers visiting the Presidency
may be admitted by the Committee as honorary members for a period not exceeding two months on the proposal of any permanent member whether a member of the Committee or not whether a member of the Committee or not thonorary members are entitled to receive the last published report of the Committee and to attend and speak but not to vote at any general meeting held during their member ship and may upon the invitation of the Prost dent Vice President or Chairman as the case may be attend under the like conditions any meeting of Committee or a lower describes the meeting of Committee or of any departmental committee or sub-committee

The affairs of the Chamber are conducted

statement of accounts at each annual meeting. February or at some other time and semi The Articles declare the number of members of annual or special meetings may be the Associated Chamber not to exceed one convened by the Executive Council or of the bundred and the Executive Council are given requisition of one-third of the total number of members addressed to the Secretary

The following an details of the principal Chambers of commerce and kindred bodies in

taries and an Auditor I'm Officers of the Chamber with the exception of the keretary Assistant Secretaries and Auditor act without remuneration. The following are the President and his Committee appointed for the year 1915 1916 -

Procedent — Hon Mr F H, Stewart CIE. (Cladstone Wyllie & (0)

Vere President - Hon. M. E. H. Brav (Gill-landers Arbuthnot & (a)

Gomentice — Mastr A A Visato (Balli Bros.) W. E. Crum (Graham & Co.) H. Harris (Chartered Bank of India Au trails and China) D. Carmionael (Mackinnon Mackingti & Co.) W. Ross Smith (Bird & Co.) F. A. S. Bill (Esstern B. ngal State Rallway) and R. V. Mansell (Jan Finley & Co Ld)

The Secretary of the Chamber is Mr H. M Haywood Asst Scive - Mr D K. Cunnison and Mr A O Daniel

The following are the public hodies to which the Chamber has the right of returning re-presentatives and the representatives re-turned for the current year— Vicercy's Legislative Council—The Hon ble

Mr F H Stewart C'R
Bengal Pepsiative Council—The Vice Presi
dent of the Chamber and the Hon ble Mr Archy Birkmyre

Calcutta Port Commission — Meser: A A. Visato (Reill Bros.), W E Crum (Graham A. Co.) D. Carmichael (Machimon Macking A. Co.) A C. Pattarson (Berker Grey & Co.) A C. Pattarson (Berker Grey & Co.) Hou. Mr. F. H. St. wart. O. In (Clasicone Wallir & Co )

Municipal Corporation - Messes Calculta A. ( Patter on (Bucher Gray v. (a) T. B. Pratt W. B. Rac. (Sun Insurance Office) and Shirky Tremearne (W. H. Targett &

Bengal Boder Communion -- Misses. C Thomson (Barnagore Jute Factory Co., Ltd.) G F Scott (Bengal Coal Co Ltd.) and T Wilson (Jessop & Co Ltd.)

Board of Trustees of the Indian Museum-Mr J B Lloyd (Shaw Wallace & Co.,

Bengal Smoke Nursances Communion-Means John Taylor (Burn & Co Ltd.) and W Lamond (Union Jute Co Ltd.)

Calculta Improvement Trust-Mr W K
Dods (Agent Honghong and Shanghal Banking Corporation)

The Chamber elects representatives to various other belies of less importance such as the committee of the Calcutta Sallors Home, and to numerous subaldiary associations. The by the following officers, namely a President to numerous subsidiary associations. The Vice-President, seven ordinary members of following are the recognised associations of committee a Heretziry and two Assistant Secre the Bengai Chambior of Committee — Calcutta Wheat and Seed Trade Association, Indian Just Mills Association Indian Tea Association Calcutta Tea Traders Association Calcutta Import Trade Association Calcutta Import Trade Association Calcutta Import Trade Association Calcutta Marine Insurance Agents Association The Wine Spirit and Beer Association of India. and who burit and Beer Association of India, Indian Mining Association Calcutta Baled Jute Association Indian Paper Makers Association Indian Representation Jute Fabrics Shippers Association Calcutta Hydraulic Press Association Jute Fabric Brokers Association Jute Fabric Brokers Association Super Association Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Association Shipper Ship

and European fut Daler A sociation.
The Chamber maintains a tribunal of artitration for the determination settlement and adjustment of disputes and differences relating to trade business, manufactures and to cus toms of trade between parties all or any of whom reside or carry on business personally or by agent or otherwise in Calcutta, or else-

Calcutta Wheat and Seed Trade Association, | consists of such members or assistants to members as may from time to time, annually or otherwise be selected by the Registrar and willing to serve on the Tribunal The Re gistrar from time to time makes a lat of such members and assistants.

The Chamber also maintains a Licensed Measurers Department controlled by a special committee it includes a Superintendent (Mr Jas Knox). Deputy Superintendent (Mr A. H Lugg) and three Assistant Superinten dents and the staff at the time of the last official dente and the scale at the trille of the lasts of the returns consisted of 153 officers. The usual system of work for the benefit of the trade of the port is followed. The Department has its own provident fund and compassions to fund and Measurers Club The Chamber does not assist in the preparation of official statistical returns it publishes weekly the Calouto Price Current and its Wonthly Supplement and sho publishes a large number of statistical circulars of various. where in India or Burmanh by whomsoever a large number of statistical circulars of various of such parties the said disputes and different ces be submitted. The Secretary of the Chamber of exclusive the Registrar of the Tribunal, which matters under discussion

#### BOMBAY

The object and duties of the Bombay Cham ber as act forth in their rules and regulations are to encourage a friendly feeling and unani mity among commercial men on all subjects involving their common good to promote and protect the general mercantile interests of this freedency to collect and classify inform ation on all matters of general commercial interest to obtain the removal as far as such a Society can, of all acknowledged grievances affecting merchants as a body or mercantile interests in general to receive and decide references on matters of usage and custom in dispute, recording such decisions for future guidance and by this and such other means as the Committee for the time being may think fit assisting to form a code of practice for simplifying and facilitating business to communicate with the public authorities with similar Associations in other places and with individuals on all subjects of general mercantile interests and to arbitrate between parties willing to refer to and abide by the judgment of the Chamber

The Bombay Chamber was established in 1836 under the auspices of Sir Robert Grant who was then Governor of the Presidency and the programme described above was embodied in their first set of rules There are now affiliated with the Chamber the Bombay Mill owners Association, which exists to carry out the same general objects as the Chamber in the special interests of millowners and users of cotton Trade Association which similarly exists for the special benefit of persons engaged exists for the special beneats of pensons engaged in the cotton trade. According to the latest for the cotton trade. According to the latest forcurs the number of members of the Chamber is 122 Of these 16 represent boulding nestitutions, 7 shipping agencies and communies, return 8 figure of solution 3 railway companies, 5 figure of solution 3 railway companies, 5 mentance companies, 6 engineers and contract bay. tors 84 firms engaged in general mercantile

All persons engaged or interested in mercan tale pursuits desirous of joining the Chamber and disposed to aid in carrying its objects into and disposed to an in entrying to coperts more effect are eligible to election to membership by ballot. The members subscription is Rs. 15 per month and an additional charge of Rs. 200 per annum is made to firms as subscription to the trade returns published by the Chamber Gentlemen distinguished for public services or eminent in commerce and manufactures may be elected honorary members and as such are exempt from paying anbacriptions. Any stranger engaged or interested in mercantile pursuits and visiting the Presidency may be introduced a. a visitor by any Member of the Chamber inserting his name in a book to be kept for the purpose but a residence of two months shall subject him to the rule for the admission of members

Officers of the Year
The affairs and funds of the Chamber are
managed by a committee of nine ordinary members consisting of the chairman and deputy-chairman and seven members The committee must as a rule meet at least once a week and the mmutes of its proceedings are open to inspection by all members of the Cham ber subject to such regulations as the com over ampete we such regard to the matter A general meeting of the Chamber must be held once a year and ten or more members may requisition through the officers of the may requisition through the omeers of the Chamber, a special meeting at any time for a specific purpose The Chamber elects representatives as follow

to various public boddes—the Governor-General Legislative Council of the Governor-General Logislative Council of the Governor-General one representative The Chamber may elect anyone but in practice they have hitherto returned, their chalman

Legislative Council of the Governor of Boin bay one representative who may also be anyone but is in practice always the skeputy chairman

Bombay Municipal Corporation, two members, elected for three years

Board of Trustees for the Improvement of the City of Bombay one member elected for two years

Board of Trustees of the Port of Bombay five members two and three being elected in alternate vegra

Representatives on the Legislative Councils become ex-officio members of the committee of the Chamber during their terms of office, if they are not already members

The following are the officers of the Chamber for the year 191, 16 and their representatives on the various public bodies -

Chayman The Hon Mr T W Birkett (Killick Nixon & Co)

Deputy Charman The Hon Mr Malcoln
N Hogg (Forbes Forbes Campbell & Co Mr Malcolm

Committee Mersia R H Brooke (Bombay (a Ltd.) 4 H Froom (P t O 8 N to) Major H 4 L Hepper R.E (G I.P Ry) Ralph Kidd (National Bank of India, Ld.)

Nigel F Paton (W & A. Craham & Co) W M Ross (Fwart Latham & Co) 6 11 Aydis (Relli Bros )

Secretary Mr R E Gregor Pearse

Assistant Secretary Mr Noel Wilkinson B & Representatives on-

Viceregal Legislative Council The Chairman Bombau Levislature Council The Deruty

Chairman Bombay Municipality Mesars J 8 Ward law Milne (Turner Murrison & Co) and D M. Inglis

Bombay Improvement Trust Major H A L

Hepper R E Bombay Port Trust The Chairman Mr Vigel F Paton Mr A H Froom Mr W Mc A. Honstonn and Mr G F Xydis

W Mc A. Houstonn and College of Admsory Board of Sydenham College of Messars W A Commerce and Economics Merats W Halg Brown and J 5 Warden Milne

Bombay Smoke Austances Commission The Hon Mr Malcolm N Hogy

51 George v Hospital Advisory Committee Dr Stanley Reed, LL D

#### Special Work.

One of the most important functions per formed by the Chamber is that of arbitration in commercial disputes Bules for this have been in existence for many years and have worked most satisfactorily. The decisions are in all cases given by competent arbitrators appointed by the General Committee of the Chamber and the system avoids the great expense of resort to the Law Courts

A special department of the Bombay Chamber is its Statistical Department which prepares a large amount of statistical returns connected with the trade of the port and of great importance to the conduct of commerce The department commists of cleven Indian clerks who by the authority of Government

work in the Customs House and have every work in the Oustons House and nave every facility placed at their disposal by the Custons authorities. They compile all the statistical information in connection with the trade of the port in both export and import divisions, which it is desirable to record. No other Chamber in India doos nimilar work

The Bombay Chamber publish a Daily Arm val Betum which shows the receipts into Bombay of cotton wheat and seeds and a Daily Arado Return which deals with trade by sea and shows in great detail imports of various kinds of merchandles and of treatre while the same return contains particulars of the movements of merchant versels

The Chamber publishes twice a week detailed reports known as Import and Export mani-fests, which give particulars of the cargo car ried by each steamer to and from Bombay

Three statements are issued once a month One shows the quantity of exports of cotton seeds and wheat from the principal ports of the whole of India The second gives in detail imports from Burope more particularly in regard to grey cloths bleached cloths Turkey red and scarlet cloths printed and dyed goods woollens fancy cloth of various descriptions yarns metals kerosine oil coal, andline dves sugar matches wines and other sundry goods of Pirce Goods and Yarn by Rail and show of Piece Goods and Yarn by Hall and show the despatches of imported and local manufac tured piece goods and yarn from Bombay to other centres of trade served by the railways

The Weekly Return issued by the Chamber shows clearances of a large number of important descriptions of merchandiae

A return of Current Quotations is issued once a week on the day of the departure of the English mall and shows the rates of exchange for Bank and Mercantile Bills on England and Paris and a large quantity of general banking and trade information

The annual reports of the Chamber are substantial tomes in which the whole of the affair of the Chamber and the trade of the port during the past year are reviewed

The Chamber has also a Measurement Department with a staff of twelve whose business is that of actual measurement of exports in the docks before loading in steamers Certificates are issued by these officers with the authority of the Chamber to shippers and ship agents as to the measurement of cotton and other goods in bales or packages. The measurement of cate at attendance on the quays whenever there are goods to be measured and during the busy season are on duty early and late The certi ficates granted show the following details -

- (a) the date hour and place of measurement (b) the name of the shipper
- (a) the name of the vessel
- (d) the port of destination
- (s) the number and description of packages (f) the marks
- (g) the measurement and, in the case of goods shipped by boats
- (A) the registered number of the boat,
- (1) the name of the tindal

# Bombay Millowners Association

The Bombay Millowners Association was established in 1875 and its objects are as fol low

(a) The protection of the interests millowners and users of steam water and/or electric power in India

(b) The promotion of good relations be tween the persons and bodies using anch nowez

(c) The doing of all those acts and things by which these objects may be by whit

Any individual partnership or company owning one or more mill or one or more press or presses one or more ginning or other factory or factories actuated by steam, water electric or other power is eligible for membership members being elected by ballot. Every member m entitled to one vote for each mill which is-

(a) owned by such member
(b) subscribed for according to the rules
of the Association by such member haa

(c) worked by motive power separate and distinct from the motive power by which any other mill is worked

If two or more mills are owned by any one member but are worked by one motive power the member in question shall be entitled to one vote only in respect of the two mills

The membership of the Association in 1915 numbered 84.

The following is the Committee for 1915 -

Mr Jehangir B Petit (Chairman) Mr N B Sakistwalla (Deputy Chairman) The Hon ble Sir Samoon David Bart Bir Dinshaw V Pritt Bart The Hon ble Bir Dinghaw V 17 tit 1847 the mon one Sir Pasulphoy Currimblevy 18 Sir Virholds D Thackers V Kit Mr I R Aldred the Hoo ble Mr Manmohanda Ramji Mr J E Bradbuy Mr B Brown Mr Rahlmtoola Currimbhoy Ebrahum Mr Narottam M Govaldas Currimbhox EDRAIM UT NAFOTAM L GORIGUAS Mr N G Hunt VIr (Owasjet Jihangir (Jun) Mr J H Latimer Mr C V Mehta Mr Meyer Visim Mr Din haw B Wacha Mr C N Wadia Mr N N Wadla

Mr R. E Gregor Pearse Secretary

Mr Noel-Wilkinson B & Asst 5 cretary

The following are the Association's Representatives on public bodies — Bomboy Port Trust Sir Vithaldas D. Thackersey Kt

City of Bombay Improvement Trust, Sir Sasmon David, Bart Vuctoria Jubiles Technical Institute Mr

Johangir Bomanjee Petit

Bombay Smoke Nunsances Co ara J F Bradbury & W A Nursances Commission, Messers Suther

Advisory Board of Tydenham College of Community and Remomics Mr N N Wadia

#### Indian Merchants Chamber

The Bombay Indian Merchants Chamber and Bureau was established in 1967 with the gible to serve on the Committee They are, lobowing objects "70 encourage a friendly bowever supplied with all the publications of teeling and unanimity among commercial men the Chamber free of charge

on all subjects involving their common good to promote and protect the trade commerce and manufactures of India and in particular to promote the general commercial interests of the Presidency of Bombay to consider and deliberate on all questions affecting the rights of Indian Merchants to represent to the Government their grievances if any and to obtain by constitutional mothods the removal of such grievances to collect and compile and distri-bute in such manner as may be most expedient for purposes of disseminating commercial and economic knowledge all statistics and other information relating to trade commerce and finance specially Indian as well as to form and maintain a library and generally to do all such matters as may promote the above ob lects in view to arbitrate between parties lects in view to armitrate between parties willing to refer to and abide by the judgment of the Chamber to receive and decide references of matters of usage and custom in dis outer recording such decisions for inture guldance and assisting by this and such other means, as the committee for the time being may think fit, to form a code of practice so as to simplify and facilitate the transaction of busi

The Chamber has not yet taken up the work of arbitration measurements etc

The following bodies are connected directly and indirectly with the Chamber though no public body is directly affiliated to it —

The Bombay Native Piece-goods Merchants Association (which sends a large number of representatives)

The Grain Merchants Association which is a member)

The Hindustani Native Merchants Associa

tion (which is a member)
The Rombay Commi sion Agents Association The Bombay Shroff Association

The Chamber elects a representative jointly with the Bombey Native Processood Merch ants Association to the Bombay Legislative Council and a representative to the Board of Trustees for the Port of Bombay, whenever it is so notified by the Government (rule Act No 1 of 1909) The Chamber also has the click to also a processing the council of the processing the council of the counci right to elect a representative on the Board of the Sydenham College of Commerce and Econo mics Bombay

Any person engaged in mercantile pursuits or interested in trade and commerce desirous of joining the Chamber is eligible for member or joining the Unamoer is engine for members, viz.
Ordinary and Honorary Ordinary members shall be (1) Realdent members who pay Rs 30 annual fee and (2) Motusell members who pay Rs 5 as annual fee An ordinary member also

pays an entrance fee of Rs 50 on being elected. Gentlemen distinguished for public services or eminent in commerce and manufactures or otherwise interested in the sims and objects of the Chamber may be elected as Honorsty members by a General Meeting of the Cham ber on the recommendation of the Committee and as such are exempted from paying subscriptions. They are not entitled to vote at any meeting of the Chamber nor are they all for the year 1915 16

Charman.-Mr Dinshaw Edulii Wacha Vice Chairman - The Hon Mr Lallubhai

Samaldas CIE

Committee - The Hon Mr Munmohandas Ramji Mr Purshottandas Thakoredas the Hon Bir Farulbhoy Corrimbhoy Ibrahim the Hon Sir Ibrahim Rahimtulla Bir Shapurii B Broacha Intended Ballmedia Di Shapirji B Bysacha Mr D vidas Madhowji Thaker-ev sir Vithaldas Damodar Thaker-ey Meser- Chaturbini Shriji Jethabhai Walji Saranji Haribhai Reseashanker Jaghwan Ruthos y Mulji Gopalji Walji Sunderji Mothai Kanji Mothai Vallabhi Phiroz J Billinoria Mathurada, Vasanji Khunji Pullita nulliantis as automore vocanji ralimi Borabiji Edulji Warden Morarii Velji Currin bhai Lalii sajan Mulli Harida 9 B Billimoria, M. P. Madan Laxunchand Maneckehand Khokhani (The Bombay throff Association) and Sheth Jagannathii Munim of Sheth Tarachand Juharmal (The Hindu tani Native Merchants

The following are the Chambers representatives on various public bodies

Bombau Legislat to Council -The Hop Mr Munnichandas Ramit

Bombay Port Trust - The Hon Mr Mun mohanda. Ramil

Advisory Board of the Syil nham (ollege of the Commerce - Mr. D. L. Wacha

Industrial Adrisory Board of the Government of Hombay—The Hon Sir Fazulbhov Currimbhoy and the Hon Sir Manmohandas Кишјі

The staff of the Chamber include -

Ainstant Secretary — Mr. M. M. Munshi, B. A.

Hon. Andstor — Mr. Ardeshir Ldulji Cama
C. A. (A. C. Blu. & Co.)

Solvetors — Meeste. Ldgelow Gullabehand,
Bampi

The Chamber publishes every month a journal Hon Jonn Corresponding Purshetam in Gujatati giving information on communical Kanji and Athaladas Damodar Govindji and industrial subjects and publishing all statistics considered in the control of the tistics considered important relating to the trade and commerce of India

#### Cotton Trade Association

The Bombay Cotton Trado Association was founded in 1876. The objects for which it was established were unter also to adjust to adjust disputes between persons engaged in the cotton trade to establish just and equitable principles in the trade to maintain uniformity in rules regulations and usages in the trade to adopt standards of classification in the trade to Addition of cincernation in the control interests at the control interests the chroughout all markets and generally to pro mote the cotton trade of the City of Bombay

The following are the Officers of the Chamber and India and augment the facilities with the year 1915 16—

We Display Retuil Weaks too had 1914 15 50 shareholders and 118 associate members. Its affairs are managed by a Board of Directors consisting of eight memhere, who are now as follow

Chairman -- Mr H. P Greaves, (Greaves Cotton & Co >

Deputy Charman -Mr Osborne Marshall. (Drennan & Co)

Mombers — Messrs J L Ainsworth. (Gill & Co.) G Boyagie (Ralli Bros.) C W Breul, (Breul & Co) H F Bush (Bombay o. Ld.) J A Grant (Frant Dwarkadae & Co) The Hon Mr M N Hogg, Forbes Forbes Campbell d' (o) BidR P Scott (P Chrystal & Co) Secretary -- Mr R E. Gregor Pearse.

#### Native Piece-Goods Association

The objects of the Association are as follow -(a) To promote by creating friendly feelings and unity amongst the Merchants, the bush ness of the piece-goods trade in general at Bombay and to protect the interest thereof (b) to remove as far as it will be within the powers of the Association to do so all the trade difficulties of the place goods business and to trame such line of conduct as will facilitate the trade () to collect and assort statistics relating to piece goods and to correspond with public bodies on matters affecting trade and which may be deemed advisable for the pro-tection and advancement of objects of the Association or any of the m and (d) to hear and decide disputes that may be referred to for arbitration

The following are the office-bearers for the

Chauman-The Hon Mr Manmohandas

# Grain Merchants Association

The object of this body is to promote the intensis of the merchants and to put the grain and seeds trade on a sound footing 1s an influential body of large membership. The office holders for the current year are as foliuw -

Chairman-Mr Hiril Mulji of Vegers Dharst **Мапрі € Со** 

Vice Chairman-Mr Velil Lakhamsi B &

Hort Secretary-Mr Shamil Shivil Sametary-Mr Lalshanker Harpresad.

#### KARACHI

Bombay Qualifications for membership are also similar Honorary membership is con-ferred upon any gentlemen interested in the affatrs and objects of the Chamber subject to the Chamber spe-to election by the majority of the votes of mem-deficient of the Chamber specific than the subject to the Chamber spe-to election by the majority of the votes of mem-

The object and duties of the Karachi Cham | bers | All ma members joining the Chamber are set forth in terms similar to those of pay Rs 100 entrance fee and the monthly sub scriptions is Hs 6 for any member contributing Rs 600 to the Chamber Fund, in addition to of the Chamber are managed by a committee of ten members, consisting of a Chairman Vice-Chairman and sight members elected at the annual meeting of the Chamber in January or immediately after The Chamber letter a representative on the Bombay Legislative Council and three representatives on the Karachi Port Trust There were last year 54 members of the Chamber and "Honorary Mombers

The following are the officers of the Chamber for the current year -

Chauman—The Hon Mr M de P Webb Olh (Forbes Forbes Campbell & Co)

Vice-Chauman-J I Murray ( Exart Ryn-& Col

Manag ng Committee—Messre H G Houghton (Bonsld (raham & Oo) J Lenz (Volkart Brothers) J N Metaxa (Relli Bros) W U Vicholas (Andrewo & Co) H H Sawver (Lavid Sasson & Co.) S J Stephen (National Bahl of India Ld) D R Trevo (N W Rallway) and C (Woodward (Clements Robson & Co)

Representative on the Karaobs Port Trust -The Hop Mr M de P Webb, CIE Mr James Konvon, Mr J H Fvie

Secretary-Mr E L Rogers

Public Transver-Captain 8 Majorist

The following are the principal wave in which the Chamber gives a special assistance to mem The Committee take into consideration and give an opinion upon questions submitted by members regarding the custom of the trade of of the Port of Karachi. The Committee under take to nominate European surveyors for the settlements of disputes as to the quality or condition of merchandise as to the quality in which both parties desire the Chamber to When two members of the Chamber do so or when one member and a party who is not a member have agreed to refer disputes to the arbitration of the Chamber or of an abitrator or arbitrators nominated by the Chamber the Committee will undertake to nominate an arbitrator or arbitrators, under of india Ld | D B. Prevor (N W Kallway and S C Woodward (Clements Robon & Co)

Representative on the Bombay Legislatus (county—The Hon Mr M do P Webb Clu

key the state of the Bombay Legislatus (county—The Hon Mr M do P Webb Clu

key the state of the s

#### MADRAS

The Madras Chamber of Commerce was found ed in 1886 All merchants and other persons engaged or interested in the general trade com-merce and manufactures of Madras are charble for membriship. Any assistant signing a firm or signing per pro for a firm is eligible. Mem-bers who are absent from Madras but par their subscriptions may be represented in the Cham ber by their powers-of-attorney as honorary members subject to ballot Honorary mem bers thus elected are entitled to the full privilege pers que sected are entired to the full privilege of ordinary members. Election for membership is by ballot at a general meeting a majority of two-thirds of the recorded votes being necessary to accure election. Every member pays an entrance fee of Ha 100 provided that banks, corporate bodies and mercantil from may be represented on the Chamber by one or more members and are liable for an entrance fee of Rs. 100 once in ten years each. The subscription shall not exceed Rs 160 per annum payable quarterly in advance subject to reduce payable quarterly in autome in accordance with the state of the Chambers fluances. Absentees in Europe pay no subscription and members temporarily absent from Madra, pay one rippe por month. Honorary members are admissible to the Chamber on the usual conditions M m bers becoming insolvent cease to be members but are eligible for re-election without r pay ment of the entrance donation

The Chamber undertakes arbitrations and surveys the granting of certificates of origin and the registration of trade marks. One of the rules for the last named is that no trade mark on ticket shall be registered on behalf of an Indian firm trading under a European name

The following publications are issued by the Chamber —Madras Price Current and Market Report Transge Schedule and Madras Landing Charges and Harbour Dues Schedule

There are 40 members and five honerary members of the Chamber in the Current year and the officers and committee for the year are as follows -

Chairman-Mr Gordon Fra≠r

I see Chairman .- The Hon Sir Hugh Frager Commuter—Messrs J C Armstrong R. Greenall W B Hunter A J Leach and C B Simpson R. E

Secretary-Mr A E Lawson ( I k

The following are bodies to which the Chamber are entitled to elect representatives and the representatives elected last year -

Madras Legislature Council-The Hop ble ar Hugh Fraser

Midias Port Trust - The Han his Hugh trawir Meser (B. Bringson; Bling & Co. Itd.) Gordon Frasir (Best & Co. Itd.) R (teen bl.) (M. A. M. Hishay) and J. H. (Bong r. (Madras Frad & Association)

Mulius Hungard Corporation - News T W rusha (Willom & Co) A I Leich (F A Faylor & Co) and J I Simpson (Gordon Wood office (o)

British Imperial Convert of Connecree Tonden - Vir A J Vorke (iii ) urope)

Indian Teales Committee-Mr J C Aun time (Pairy & Co)

# Southern India Chamber

The Southern India Chamber of Commerce has its Registered Office in Madras The objects of the Chamber are those usual for such bodies, concerning the promotion of trade especially in the Madrae Presidency and the interests of members | Special objects are stated to be -

"To resintain a Library of books and publications of commercial interest so as to diffuse commercial information and knowledge amongst its members

To establish Museums of commercial products or organise exhibitions, either on behalf of the Chamber or in co-operative with

There are two classes of members permanent and honorary The usual conditions as to aligibility for election prevail

The Tutleorin Merchants Association is affiliated to the Chamber The right of electric two representatives to the Madras Port Trust (BA

was accorded to the Chamber by the Madras-Fort Trust Amendment Act 1915 Members of the Chamber hold seaks in thi. Madras Legisla tive Council and in the Madras Corporation but the Chamber does not emjoy the right of electing representatives to these bodies

President -- Rao Bahadur P Theagamya Chettiar B A

Honorary Secretaries—M R Ry P N Muthusami Naidu Garu BA and Moulana Abdus Subhan Sahib

Asst Secretary-C Duralswami Alvangar.

#### UPPER INDIA CHAMBER.

The Upper India Chamber of Commerce Committees have power to communicate only concerned with trade commerce and manu with the Central Committee is concerned with trade commerce and manufactures in the United Provinces and has its registered office at Cawnpore Members are elected by the Committee subject to confirms tion by the next general meeting of the Chamber Honorary members are elected on the u ual qualifications but can neither serve in the Commuttee nor vote at meetings of the Chamber There is no entrance fee for membership but subscriptions are pavable as follows -A firm. company or association having its place of business in Cawinpore, Its 200 a year An in dividual member resident or carrying on bush ness in Cawnpore Rs 100, Firms or individuals having their places of business or rail dence outside Cawnpore pay half the above takes but the maintenance of a branch office in Campore necessitates payment of full rates

The affairs and funds of the Chamber are managed by a Committee of ten members which has power to constitute Local Commit tees, of from four to seven members each at trade centres where membership is suffici ently numerous to justify the step Such Local

The Chamber appoints arbitration Tribu nal for the ettlement and adjustment of dis putes when invited to do so members of the Tribunals being selected from a regular printed list of arbitrators

The Chamber has in the present year 60 mcm bers four honorary members and five affiliated in mper

The following are the officers -

Prendent—The Hop Mr I P Watson (Cooper Allen & Co Ltd )

Tue President-Mr B R Briscoe (Elgin Mills (c Ltd)

Members — Versers K. M. Balfour (Allshabad Bank Lid.) N. 4. S. B.nd. (E. I. By.), C. O. Malley (Gawnpore Cotton Mill). T. D. Ladelston (I. gg. Sutherland & Co.) T. Gavin Jones (Luppir Laguneering Co.) 4. W. Lilley (Cawnport Woollen Mills). T. Vanth (Murr Mills Co.) Babu Bam Naraju (Bam Naraju Budrida s.) Secretary-Mr J G Ryan

# PUNJAB

The Publish Chamber of Commerce has its current year headquarters at Delhi and exists for the care of mercantile interests on the u unl lines in the Punjab the North West Frontier Province and Kashmir There are affiliated branches of the Chamber at Labore Amritear and Rawalpludt Membersan elected by ballot the only muse sary qualification being interest in increantile pursuits fliere I no entrance fee. Ph. rate of sub tription is Rs 10 per month The following are the Officer Committee and Representatives on public bedies for the

Irealdent -Mr T C Waller (M sars F ).

Waller & Lor Waller & 10 | Genotics—Mi C Buckley Box (The Punjab Banking Co Ltd.) Mr J C Roberts (Gut num & 10 | Mr N A S Bond (East Indian Hallway), Liu Hon Mr James Currie (Wesser James Currie (Co), Mr A I (Fordon (National Bank of India, Ltd.) Ourie (Messis James Curne & Co.), Mr 4 1: (Kordon (National Bank of India, Lid ) Mr D N Bhanja (Kerr Faira & Co.) Representative on Punjub Legislative Consoil— The Hon ble Mr James Cunne Secretary—Mr J Renton Denning FRSA

#### UNITED PROVINCES

in the trade and industry of the United Pro-viness was held at Cawnpore in February ber of Commerce with its headquarters at 1014, to inaugurate an Indian Chamber of Cawnpore The Camber has been registered Commerce for the United Provinces. Resulter the India Companies Act and has been presentative of firms in Cawnpore Becares recognised by the Provincial Government Allababed, Lucknew, Fysabad and other

A meeting of Indians engaged or interested places with pir in it it was unanimount in the trade and industry of the United Pro-

The inlowing are the office-holders of the Chamber, appointed in 1915 —

President-Rai Bahadur Lala Prayag Yarain Bhargava (L I. Couper Paper Mills Luck

Vice-Presidents—The Hon Lila Bishembhar Nath Hafiz Mahomed Halim and Lala Moolihand

Committee—Mr. Madan Mohan Khanna (Allahabad Bank), C Y Chintaman; (Allahabad Bank), C Y Chintamani (Newspapers, Ltd Allahabad) Mr Alakdhar (Oudh Commercial Bank Ltd Fyzabad) (Oddar Commercian Baris, Ltd. 1722,0021)
Babu B bari Li (Sri Ga 1821) Cotton Ville
Mirzapore) Mesers Diosnath, Muma Lali
Brhari Lal Rai Bahadur Kanhiya Lal and
Seth Baun Ropal Cowmpore

Secretary and Joint Secretary - B Vikramiit Singh and Pandit Bishwa Nath Tholai

#### BURMA.

The Burms Chamber of Commerce headquarters at Rangoon exists to encourage of the province or who may have rendered dis nearquarters at Kangoon range of accountering the all subjects involving their common good to promote and protect trade common and manufactures and in particular the general m reantile interests of the province to communicate with public authorities, associations and individuals on all matters directly or indirectly affecting these interests and to provid nor arbitration between parties willing to r fer to and shide by the Judgment of arbitrators ap-pointed by the Chamber The fellowing are affiliated bodies

Burna Bire Insurance Association Burma Marine Insurance Agente Associa

Rangoon Import Association

The Chamber elects representatives to the following Public Bodies -

Burms Legislative Council

Rangmon Port Trust Board Rangoon Municipal Committee

Victoria Memorial Park Trustees, Pasteur Institute Committee

Burma Boiler Commission

All corporations companies firms of persons engaged or interested in nercontile pur-uit auch as merchants banker shipowors and brokers or who are connected with agriculture mining, mar discitives in drance commerce art science or literature relly by a shall be cligible to become Vumbers of the Chamber The subscription is Rs 20 per month Official Official

with and others indirectly connected with the trad 'inguished service to the interests represented by the Chamber may be elected by the Com mittee either on their own mution or on the suggestion of two Member as Honorary Mem bers of the Chamber Honorary Momb is are not required to subscribe to the funds of the Chamber

The Chamber undertakes arbitrations in addition to its ordinary work. It does not publish any statistical returns

The following are the Officers Committee and Representatives on public bodies for the current year -

Chairman—Th Hon Mr A. W Binning (Binning & Co)

Tre Chairman-Mr 0 Ander-on (Bulloch Bros & Co 1td.) (Funder Bros & Co. 11d.)

Committee—Mr. W. Buchanan (Finlay

Flemming & Co.) M. sap. B. F. (1. 1 dd)

(Gilland re. Arbuthnot & Co.) + (fulnus ex-(Hongkong and Shanghai Bunking Corpu Trading (orph Ltd.) H B Huldle ton (Burma Railwaye) M Joskim (Balth 12ar

 $\Gamma_{q}$ 

Secretary—Mr C A Cuttrus
Revresentative on the Burma Lagralative Council-The Hon ble Mr A W Bluning Representatives on the Rangoon Port Trust Roard-Miner D Robert on W Buchenen J A Pol on J Stott

& Son) J A Tolson (Irrawaddy Flotilla (o Ltd ) and J Scott(Steel Prothers & Co

Representative on the Rungoon Municipal Committee—Mr M. Jonain

#### COCANADA.

Cocanada Chamber of Commerce which has its lead-quarters at Cocanada the chief port on the Coromandel Coast, north of Madras

Messrs P J Rose (Bank of Madras)

Chairman A Gardiner and B Eddington (Coromandel Co Lidi) E H D'Cruz (Wilson & Co) A E Todd (Kumson Brose) M R. By Bao Bahadur h Suryanarayanamurty Naidi Garri and G M Lake (Innes A Lo) W Mac kintosh (Shaw Wallace & Co) B J Hunter (Ripley & Co) and E Hury (Volkart Bros.)

Scoretory - Mr J A. Moller

Semesary.—Mr J A. Malber
The rules of the Chamber provide that by
the term 'member be understood a mercan ithe Chambas propenses and 2 supplementary mem

The following are the office holders of the tille firm or a tablishment or the permanent agency of a mercantile firm or establishment or a society of merchante carrying on business in tocanada or other place in the Districts of Ristne Godavari, Vizegapatam and Ganjam, and duly electing according to the Rules of the Chamber and that all such be eligible but only members resident in Cocanada can hold office Members are elected by ballot. The Con mittee when called upon by disputing members or non members of the Chamber give their decision upon all questions of mercantile image and arbitrate upon any commercial matter referred to them for final judgment. In the former case a fee of Rs. 16 and in the latter a

bers, the Chairman to be elected by ballot. The subscription for each member whose pisce at the general meeting of January in each of business is in Cocanada is Rs 120 per annum year for a term of 12 months and the compand for each member whose place of business year for a term of 12 months and the Committee with 2 supplementary members at the is discovere be Rs 60 per annue parable general meetings of January and July in each year for the term of 6 months. The entrance fee for each member whose place of business is in Cocannda is Rs 50 and for each member the discovery of business is in Cocannda is Rs 50 and for each member frights, and exchange is driwn up by the whose place of business.

and for each member whose place of business is classwhere be Rs 60 per amum payable

#### CEYLON

The Ceylon Chamber of Commerce was in corporated in 1899 and has its head quark as I Colombo All firms and persons engaged in the general trade of C vion are admissible as members and every person or firm destioned froming the Chamber must be proposed by one member seconded by another and ball lotted to by the whole thamber. The afferts of the chamber are confused as a commerce of the chamber of the Chamber are conducted by a Board of Directors con using of Chairman and Vice | Chairman and from five to 10 members

The following is the membership of this Committee at the present time

VIT WIT MOIT (I WIS Brown & Co) (Chairman) Wit Jus Louborn (Pice Chairman) Mr R 8 Philpott (P & O 5 N Co) Wit H 5 Jistreson Mr W 6 Maovices (Chart red Boat) Mr W Philp Mr T 9 (Clark Wit W 1 Taler Mr (5 Burns Mr W I Cary

Secretary-Mr T V Simison

# The Peoples of India

It is emention to bear in mind when dealing | putana, and in Bihar and represented in its upwith the people of India, that it is a continent rather than a country Kowhere is the complex character in an a country of whitere is the complex character of Indians more clearly exemplified than in the physical type of its inhabitants No-one would confuse the main types such as Gurkhas. Pathans Siths Rajous Burmans Ragas, Tamils, etc. nor does it take long to carry the differentiation much farther. The typical inhabitants of India-the Dravidians-differ altoinhabitants of indis-the Dravidians-direct according to from those of Northern Asia, and more nearly resemble the tribes of Melaya, Sumatra and Madagnear Whatever may be their origin it is certain that they have settled in the country for countless ages and that their present physical characteristics have been evolved locally 1 hey have been displaced in the North West by successive bordes of invaders, including Aryans Serthians, Pathans and Mostnals, and in the North East by Mongoloid tribes allied to those of Burna which is indis only in a modern political sense, Between these foreign elements and the pure Drawidians is borderland where the contiguous races have intermingled

The people of the Indian Empire are divided The propie of the Linux Empire are invited by Sir Henry Risley (Caste Tribe and Race, Indian Census Report, 1901 the Gaz-tier of India, Ethnology and Caste Volume I Chapter 5) into seven main physical types There would be clothed the Andersea warm reclaimed by the be eight if the Andamese were included, but this tiny group of Negritos may be disregarded

The Turko-Iranian, represented by the Beloch, Brahul and Afghans of Baluchistan and the North West Frontier Province Probably formed by a Insion of Turki and Perdan elements, in which the former predominate Stature above fa Whim the iorner precommate statute arove mean complexion fair eye, mostly dark but occasionally grey bair on face plentiful head broad note moderately narrow prominent and very long The feature in these people that strikes one most prominently is the porteu. thous length of their noses and it is probably this pecularity that has given rise to the tradi tion of the Jewish origin of the Afghans

The Indo-Aryan occupying the Punjab Raj putana, and Kashmir and having as its charac teristics members the Rajputs, Khatira, and Jata This type, which is readily distinguish able from the Turko-Iranian, approaches most clearly in the reschied to the traditional. able from the furk rather and probability to that ascribed to the traditional Aryan colonists of India. The stature is mostly tall complexion fair eyes dark hair on face pientiful, head long note ne minent, but not specially long nose narrow and pro-

The Scythe-Dravidian comprising the Mar atha Brahmans, the Kunbis, and the Coorgs of Western India. Probably formed by a mixture of Scythian and Dravidian elements. This type is clearly distinguished from the Turkotransan by a lower stature, a greater length of head, a higher nasal index, a shorter nose and a lower orbito-nasal index. All of these characters

per strate by the Hindustani Brahman and in its lower by the Chamar Probably the result of the intermixture, in varying proportions, of the Indo-Aryan and Dravidian types. The head-form is long with a tendency to medium the complexion varies from lightlen brown to black the nose ranges from medium to broad being always broader than among the Indo-Aryans the stature is lower than in the latter group and usually below the average according to the scale The higher representatives of this type approach the Indo-Arvans while the lower members are in many respects not very far removed from the Dravidian. The type is essentially a mixed one yet its characteristics are readily definable and no one would take even an upper class Hindu-dam for a pure Indo-Aryan or a Chamar for a genuine Dravidson. The districtive feature of the type the character which gives the real clue to its origin and stamps the Aryo Dravidian as racially different from the Indo-Aryan is to be found in the proportions of the non

The Mongolo Dravidian, or Bengah type The Mongolo Dravidian, or sengal type of Lower Bengal and Onsas, comprising the Bengal Brahmans and Kayasthas the Mahomedans of Fastern Bengal and other groups peculiar to this part of India Probably a blend of Dravidian and Mongoloid elements with a stain of Indo Aryan blood in the ligher groups of the board and appropriate the second of the lighter groups. The head is broad complexion dark hair on face usually plentiful stature medium noso medium with a tendency to broad. This is on: of the most distinctive types in India, and its members may be recognised at a glance through out the wide an a where their remarkable anti out the water and where their returning the produced them employment. Within its own habitat the type extends to the Himalayas on the north and to Assam on the east and probably includes the bulk of the population of Orizza the western inut concludes approximately with the hilly country of Chota Nagpur and Western Bengal

The Mongoloid, type of the Himalaysa Vepal, Assam and Burma, represented by the Kanete of Lahul and Kulu the Lepchas of Darfeeting and Wikim the Lambus Murmas and Gurungs of Nepal the Bodo of Assam and the Burmese The head is broad complexion dark with a yellow thinge hair on face scenty stature short or below a verage characteristically flat eyelids often oblique

The Dravidian type extending from Ceylon to the valley of the Ganges and pervading Madras Hyderabad the Central Provinces most of Central India and Chota Vagpur Its most characteristics representatives are the Faniyans of Malabar and the Santals of Chota Naggur Probably the original type of the population of ladia now modified to a varying extent by except perhaps the last, may be due to a varying extent by gardenes of intermixture with the Dravidians. In the higher groups the amount of crossing sensition and delements in typical specimens the stature to have been slight in the lower the Dravidian clements are more gronounced.

The Arys-Dravidian or Hindustani, found in the United Provinces in parts of Rej.

The material in this action is a part of Rej.

\* The material in this section is almost entirely taken from the Report on the Compa of India, 1911, by Mr E. A Gait, C.S.L. C.I.E., IC.S., Fellow of the Royal Statistical Society

This race the most primative of the Indian types, ecomples the oldest geological formation in Judia, the medley of forest-clad ranges, terrared plateau, and undulating plains which stretches roughly speaking, from the Vindhyas to Cape Comoriu On the east and the west of the peningular area the domain of the Dravidian is pennanya area the common of the Davinum is conternances with the Ghata, while it river north it reaches on one side to the Aravalla, and on the other to the Rajmahal Hills Where the original characteristics have been unchanged by contact with Indo-Aryan or Mongoloid people contact with Inde-Aryan or Mongoloid people the type is remarkably uniturn and disturbive Labour is the birthright of the pure Dravidlan whether hoeling tea in Assam the Duars, of Ceyion cutting rice in the swamps of Eastern Bengal or doing scavenger's work in the streets of Calcutta Rangoon and Sungapore he is recognizable at a glance by his black skin his squat figure and the negro-like proportion of his nose. In the upper strate of the vast social denous twich is here, treated as Unavaidan than deposit which is here treated as Dravidian these typical characteristics tend to thin and disap pear but even among them traces of the original stock survive in varying degrees

It must, however be clearly understood that the areas occupied by these various types do not admit of being defined as sharply as they must be shown on an ethnographic map 1 hey must be shown on an elmographic map. They are highly educated and rall melt into each other insensibly and although along primitive aborginal at the close of a day a journey from one obtained itself to another an observer whose attention that been directed to the subject would realise vernin and jungle products.

clearly chough that the physical characteristics of the people had undergone an approcable change he would cartainly be unable to say at what particular stage in his progress the transformation had taken place.

Contrasts.—The luguistic survey has dis-tinguished in India about a hundred and thirty indigenous dialects belonging to six distinct families of speech. In the domain of religion though the bulk of the people call themselves Hindus there are millions of Mahomedana, Ani-mists, Buddhists, Jains, Sikins, and Christiana. So also in respect of social customs. In the north near r latives are forbidden to marry but in the the south cousin marriage is prescribed and even closer aliance are somotimes permitted. As a rule female chastity is highly valued, but som communities set little store by it, at any rate pror to marriage and others make it a rule to dedicate one daughter to a life of religious prostriction In some parts the women move about freely in others they are kept secluded. about freely in others they are kept sectioded.
In some parts they wear shirts in others trousers. In some parts again wheat is the staple food in others rice and in others millets of various kinds. All stages of civilisation are found in India. At one extreme are the land holding and protessions classes many of whom are highly educated and relined at the other various numbers, aborquest tables such as the various primitive aboriginal tribes such as the head hunting Nagas of Assam and the leaf clad savages of the southern hills who subsist on

#### MAIN STATISTICS OF THE INDIAN EMPIRE.

According to the revised areas adopted in the Census of 1911 the Indian Empire contains 1,802,657 square miles or som 36 000 more than in 1901 About 23 000 square miles have than in 1901. About 25 000 Squart miles have been added owing to the enumeration for the first time of the Agency tracts attached to the North West. Frontier Province A further 6 500 represent the area of the Sunderbans or swampy littoral of the Ganres delta which was left out of account at previous enumerations Finally the Frontier State of Manipur has been found to contain about 5,000 square miles more than the estimate made in 1901

Population Divisions.—The provinces under British administration comprise 1 093 074 square miles, or 60 6 per cent of the total. The remain day is included in the Native States. The total population is 315 156 896 of which British territory contains 244 267 54- or 77 5 per cent and the Yative States 70 886 854 or 22 5 per cent

Comparisons with Europe. - These stupend ous figures can be grasped only by contrast. The Indian Empire is equal to the whole of Enrope Indian Empire is equal to the whole of Egrope except Russia. Burma is about the same si cas Austria Hungary Bombay is comparable in point of area with Span Madras, the Punjab Batuchistan, the Central Provinces and Retar and Raiputana are all larger than the British Islands, the United Provinces and Sihar and Orisas than Italy and Hyderahed and Kashmir than Great Entain excluding Yorkshire.

Onssa as France, Bombay as Austria, and the Punjab as Spain and Portugal combined. The population of the Central Provinces and Berar approaches that of Brazil Hyderabad and Burus have as many inhabitants as Egypt Central India and Bajputana as Soctland and Ireland combined and Assam as Belgaum

Density -In the whole Empire there are on the average 175 persons to the square mile, or much the same as Europe ontside Russia. In British territory the number to the square mile 14 223 and in the Native States 100 former figure exceeds by 34 the density ratio in France and the latter is indentical with that in Spain

There are great local variations in density In nearly two-thirds of the districts and States, the number of persons to the square mile is less than 200 and in about a quarter it ranges from 200 to 500. The units with less than 160 persons to the square mile covers two-fifths of the total area but contains only one-eleventh of the popu-

Causes of Density —The productiveness of the soil is the main factor in determining the den Batteristan, the Central Provinces and Renal Repulsion are all larger than the British Islands, the United Provinces and Bihar and Orises than Italy and Hydershad and Kashmir than Great Britain excitiding Yorkshire.

The population of India coccede that of Europe without Russias, and is considerably more than the Europe without Russias, and is considerably more than the Configuration of the United States of America. The United Provinces and Bengal, with the States of the Deck Deck have as made in the United Provinces West and the Propint States at action to the British Islands, Bihar and favourable the rainfall is more sensity and less favourable the rainfall is more sensity and less favourable.

WOHE	H OF THE IND	GROWTH OF THE INDIAN POPULATION	z '		:
	1911	1901	1881	1981	1872.
INDIA	815 156 396	294 361 056	287 314 671	253 696 330	200 165,360
Provinces	244 207 542	231 605 940	221 240 830	198 882,817	185 168 485
Ajmer Merwara Andamana and Nicobara	501 895 26 450	476 91 <u>.</u> 24 849	15 609	460 72. 14,628	89-6 831
Aesam Belochistan	6 714 685	382 106	o 477 802	4 907 792	4 150 769
Bengal	40 488 077	42,141 477	39 080 687	86 816 728	34,119 465
Bither and Orbsa Bither	34,490 084 23 752 969	58 21, 788 23 360 212	32,476,557 23,581,638	30 BSR 120 24418 367	26 486,482
Отима Олючь Имериг	5 181 758 5 405 86_	4 982,142 4 900 429	4 666 227	4 343 964 4 225 989	3 603,150 8 147 099
Bombay (Presidency) Bombay	19 672 642	18 559 650 15 304 766	18 879 471	16 494 5.48 14 042,641	16 301 362 14,075 508
Sand Aden Auros	8 518 435 40 165 12 115 217	3 210 910 43 974 10 490 624	2,875 100 44 079 7 722,058	2 675 100 34,880 3 736 771	2,206,665 19,239 2,747,148
Central Provinces and Berar Central Provinces Berar	13 916 308 10 859 146 3 057 162	11 971 4.2 9 217 456 2,754,016	13 048 972 10 161 481 2 897 491	11 948 363 9 270 600 2 672,678	9 951 268 7 723,614 3,227 654
Goorg Madras	174,976	180 6.17 38, 229 654	3, 644,428	178 302 90 841,154	168.812 31,230 622
North-West Frontier Province (Destricts and Admin intered Territories).	2,196,938	20 330 337	1 857 519	1 576 948	17 609 672
United Provinces of Agra and Outh Agra Oath	47 182,044 34 <b>624</b> 040 12,558,004	47 692,277 34,869 109 12,833,168	46,915,512,94,254,588,12,650,994	44,149 959 38,762,127 11 287 832	48,002,004 80 780,981 11,221 042
			-		į

### CITIES

The general practice of statisticians is to treat per cent. The falling off is due largely to the statistic only those places which have a population of more than 100,000. According to this itemakerd there are in India only 80 cities, with the suburban municip intes have grown during a population of 7 075 782, or 2 2 per cent of the population of 7 075 782, or 2 2 per cent of the decade by 45 3 per cent. Bombay—which has now a population of the indian conditions and only 10 45 was a petty town with about ten then there is no conditions and inh but it is when it passed into the state contain 45 per cent of the total monitation. states or Western countries. In language the distance contains 45 per cent of the total population in Germany 21 and in France 14 per cent. But even in these countries the growth of cittles is comparativaly recent. In 1871 England had enly 27 ceties with 9 5 million inhabitants and Germany only 8 ith 2 milhons There are tigms that in India it s growth will be more rapid. in the inture than it has been. The population in the mure than to has been. The propulation of cities has rises since 1878 by 64 per cent, and the net increase comparing like with like is 43 per cent. The most rapid growth during this period is shown by Rangoon which has tribled its penulation. Kent comes Karachi with an interest of 100 persons of 100 persons. trease of 168 per cent and then Madura and How rah with 168 and 118 per cent respectively. Since 1901 two new places Jubbulpine and Dacca, have entered the list of cities, while Beroda has disappeared from it Eighteen crites have gain ad, and twelve have lost population of the latter a few like Mandal y are really decadent but in most such as Nagpur and Cawupore the loss was due wholly to the t mporary influence of plague. The progressive cities are differ its ated from those which are decadent by their large immigrant population In Bombas Calcuita and Rhowrah this viceds 70 per cent of the total and in Rangoon and Karschi tit close on 70 per cent In Patna Mandaley and Barcilly on the other hand, it is barrely 10 per cent

Calcutta -- In speaking of Calcutta we may Cascarta —In speaking of Calcutta we may mean Calcutta proper or the area administered by the Calcutta Municipal Corporation with the port fort and casais the population of which 880,067 or this area plus the suburban municipalities of Consipur-Chitpore Manicktola and Carden Reach with 108,807 inhabitants, or last by Greater Calcutta which also includes Howash with an expression production of 1999 813 The with an appregate population of 1 222,813 The suburban municipalities diff r from Calcutta buly in respect of their Municipal Government From a structural point of View they cann t be distinguished. The buildings are continuous continuous throughout and there is nothing to show where one mini-pality begins and the other ends. Astriking feature of the etasticities is the large number of miningrants. Less than 29 per cent of the inhalitiants of Calcotts proper claim it has as their birthplace. The west imported are immining mants of whom 294,000 come from Rihar and Oriens and 90,000 from the United Provinces. Of the Bengal districts the largest contributions are those from the 24 Parganas (88,000). However, of the 194,000 come Midnapur (29,000). The working of immigration is equally great in the instants and Hoorah. throughout and there is nothing to show where enburbs and Howrah

The first regular commus of Calentta proper taken in 1872 showed a population of 6,33,000 in 1881 there was practically be change, but in 1891 again of 14 per cast, was recorded. In 1891 again of 14 per cast, was recorded. In 1891 again of 14 per cast, was recorded. In 1891 again of 14 per cast, was recorded. In the population grew fairly rapidly during 1891 per was a further increase of 24.3 per cent. The population grew fairly rapidly during that of this was due to improved anuaer the twenty years miles stationary. There has been station. At the present consum that the proper has dropped to 5.7 of persons born in the city but fewer of them

Bombay—which has now a population of 978 445 was a pertly town with about ten thon sand inh bit its when it passed into the possession of the British in 1681. The population was estimated to be 100 000 in 1780 180 000 in 1814 a d. 276 000 in 1836. At the first regular census in 1872 it had risen to the first regular census in 1872 it had risen to 44 405 and nuncteen years later in 1 of it was 821 764. In the next decade plague which first appeared in September 1896 caused a serious set back and it is estimated that by 1901 this decade had already been responsible for 114 000 destine. The crusus of that year showed a decrease of about 6 per cent. but this was not wholly due to destine At the time when the resus was taken, a virulent epidemic was in progress, and large numbers of the permanent residuals about a better of the permanent residuals and the second second and the second secon demic was in progress, and large numbers of the permanent res dents had sought safety in flight A fresh enumeration taken in 1900 by the Health Department of the Mu nicipality gave a population of 959 537. The number now returned exceeds that of 1901 by 28 per cent but it is only 2 per cent more than if was at the time of the local enumera. tion of 1908 It is said that the census of 1911 was taken at a time when many of the immi grants from neighbouring districts had gone to their permanent homes for the Holl hold ays, and that many of the cotton mills had closed down temporarily owing to the prohibitive price of the raw material like other large trading of the faw manner. 11xe other large training and industrial centres, Bombay 1s peopled mainly by immigrants and more than 80 per cent of its inhabitants were born elsewhere Most of them come from the neighbouring dustricts more than one-fourth of the total num ber are from Ratnaguri while four other districts 30 000 Goanese, most of whom are in domestic service Of the immigrants from outside the province some 50 000 chiefly mill hands are from the United Provinces, and 12 000 mainly shop keepers, from Rajputana. Of the immigrants from outside India the largest number (d 000) come from the United Kingdom

Madras — Unlike Calcutta and Bombay Madras which is bandicapped by its distance from the coal fields has but few large industhe indicences handlerafts are decaying and their place is not being taken by factories of the modern type. A are from its being the headquarters of the Local Government Madras heating natters of the Local Government manuses owes whatever importance it possesses to its position as a distributing centre. Of its total population (518 660) only one-third are luming rant, and of these only L2 per cent have come from piaces beyond the limits of the Madras Presidency. The great majority are natives of the four districts in the immediate vicinity of the tour districts in the immediate vicinity of

		,	-		
	1911	1301	1801	1881	1873
BIATES AND AGENCIES	70 888 804	62 755 116	00 078 885	819 2019	20 998 925
Amain State (Manipur)	346 222	284 485		221 070	
Baluchistan States	420 201	428 640			
Baroda State	2,032 798	1 952,692	2,415 396	2,182,158	1 997 598
Bengal States	822 565	740 296	716 310	698 261	188,793
Bihar and Oriesa States	3 945 209	3,814 474	8 028,018	2 410 611	1 728,900
Domba, States	2 411 67E	6 908 556	9 081 950	6,937 898	6 797 970
Central India Agency	9 356 980	8 497 805	10 136 403	9 261 907	
Central Provinces States	200 211 7	1 081 140	1 772,562	1 387 294	628 116
Eyderabad State	18 874 676	11 141 142	11 587 040	9 845 594	
Kashmir State	3 158 128	2,905 578	2 543,952		
Madras States	4 811 841	4 188 086	3 700 622	3 344 849	3,286 302
Mynore State	5 806,193	£ 389 399	4 948 604	4,186 188	6 055 402
н т Р Province (Agencke and Tribal агеая)	1 622,094	83,982			
Principal Blakes	4 812 794	4 424 808	4 263 280	3,861 683	
Rejpotens Agrucy	10 530 432	3 858 866	12.171 740	9 984,255	
Elizabra Maste	87 920	₽10 69	80 458		
United Provinces States	832,036	802,097	792,491	741 750	638,720

have been enumerated within the city limits. As compared with 1901 the net gain due to imagestion is less than 9 000. It is possible that the capital of the Nisam's Dominions. Its great demand for labour is Burms, where population is shown in the local cessus Report wages are very high has attracted many of the labouring classes who would otherwise have little industrial progress, and less than a quarter speach their living in Madras.

#### HOUSES AND FAMILIES

Generally speaking it may be said that the form but a small fraction of the total population the solution and several apartments which the towns and cities owing to the high rests, are arranged round and open on to a contrast which it be towns and cities owing to the high rests, are arranged round and open on to a courty and, the unit for all below the middle class is the in spite of the joint i mily system the number of mon not the bouse. house corresponds very closely to the number of families in the European sense. The total number of houses is 68 7 million and there are 64 8 million married females aged 15 and over Except amongst the higher castes who

labouring classes in India live in one, or at the the joint family system is not nearly so common most two single room huts. The home of a well as is frequently supposed Where it is in vogue

1881	Transc population per tree-	58
1891		5 4
1901		5 2
1911		4 9

# MOVEMENT OF THE POPULATION

According to the census returns, the fotal population of India has increased by 7 1 per cent.during the last decade and by 52 9 per cent since 1872, but the real gain since the latter date since 1872, but the real gain unce the inter care is very much less than this I arge troats of country including the Central India and Eaj putana Agendos Byderabad and the Punjab States which were omitted from the census returns of 1872, were included in those of 1881. In 1891 the greater part of Poper Burms and Kashmir and several smaller units were courser ated for the first lime. In 1901 the most im-portant additions were a portion of Upper Burns and the greater part of Bahichistan In 1902 the Agencies and tribal areas in the North West Frontier Province, together with a few smaller areas were included within the scope of the enomeration. The real increase in the population in the last 39 years is estimated at population in one use 39 years is sequenced as about 50 millions, or 19 per cent. This is less than half the increase which has taken place in the same period amongst the Teutomo nations of Europe, but it considerably exceeds that of the Eatin nations. In France the population has grown by less than 7 per cent since 1870 but this is because of its exceptionally low birth rate. In judia the birth rate is far ligher than in any Roropean country and it is the heavy mortal ity especially amongst infants which checks the rate of increase

Famine and Disease.—In addition to the causes which ordinarily govern the movement of the population, India is subject to two special factors-famine and epidemic disease. The decade perceding the census of 1911 was free from widespread famines such as those of the preced ing ten years. In 1907 there was a partial failure of the monsoon which was follower a wide area, extending from Bihar to the Punjab and Bombay and causing actual famine in the United Bombay and causing actual famine in the United provinces and in a lew districts elsewince another have sustained a set-back. In the lar Provinces and in a lew districts elsewince another have sustained a set-back. In the lar provinces ruled high in most years and there was a nextension of special crops such as jute and slee frequently considerable. In Bengal one oction, which are more profitable to the cultivator than food grains. It was on the whole a period of moderate agricultural property from the point of view of public health, the canal period would have been an average on. In British territory there has been a gain of but for the ravague of plague. Breaking out in

Bombay in 1866 if has by March 1901 caused a recorded mortality of half a million Since them recorded mortality of half a million these them thas continued its ravages especially in Bombay and Upper India. The mortality from it rose from about a quarter of a million in 1901 to 1 3 millions in 1907. It fell below a quarter of a million in such of the next two years but in 1910 it exceeded half a million. The total number of deaths from plague during the decade was nearly 6 5 millions of which over one-third occurred in the Puniab and two-fifths in the United Provinces and Bombay taken together The disease fortunately has falled to establish itself in Bengal Assam and on the East Coast and in the extreme south of the Peninsula and in the extreme south of the Pennsula.
This however is only the recorded mortality in time of cyclerate the reporting agency breaks down and large numbers of deaths goods registration. Plague attacks women more than men and people in the prime of the more than the young and old. If plague is omitted and it is assumed that the mortality of the decade would otherwise have remained normal, the population of the census of 1911 would have been greater than it was by at least 6 5 millions. In other words, the population would have increased by 9 8 instead of 7 1 per cent

General Concinsions — The most noticeable feature is the continuous rapid growth in Burma Lower Burma has grown by 130 per cent since 1872 and the whole Province including Upper Burma, which was annexed in 1886, by 37 per cent since 1891 In Assam including Manipur the increases since 1872 amounts to 70 and in the Central Provinces and Berar to 47 per cent In the other main provinces the rate of growth has been much slower In some provinces such as Burms, Assam and Bengal there has been continuous progress but others, at some time or another have sustained a set-back. In the lar

				G1	010	th o	f the	Po	pulatı	011			359
Net variation in period 1872 to 1011 Increase (+)	+108 894 088	+59 104 107	+105 064	+2,562,886	+11 363 618	8 008 <b>602</b> +4,017 342	+1,528 597 +2,467 <b>668</b>	+3 371 280 +8,087,584	+1 706 870 +28 876 9 365 060	+8.005.040 +8.135.632 +8.20.508	+6 664 +10 174 782	+4,562,217	+5 180 040 +8 843,070 +1 836 961
1872 to 1881	+47 733 970	+13 719 362	+64 491	+757 028	+2,107,268	+4 501 938 +2,682,740	+740 308	+163 176	+210 492 +15 671 +889 623	+1 992,095 +1 547 076 +445 019	+0 990 -880 468	+1,240 868	+2,147,955 +1,981,169 +166,789
1881 to 1801	+ 39 418,541	+22,358 019	+81 686 + 981	+569 510	+2 772,904	+1 889 247 +1 103 171	+322 208	+2,883 988 +1,916 671	+468,048 +9 219 +3 985 242	+1 105 609 +980 791 +224 818	—5 247 +4 808 274	+281576 +1784771	+2 755 553 +1 402,461 +1 263 092
1891 to 1901	+7 046 885	+10 86 104	-65 446 +9 040	+364,076	+8 051 845	+866 226	+316 915	-318 821 -654 526	+335 810 -10 +2 768 5 1	-1 07" (20 -034 045 -148 475	+2.085.226	+164 015	+786 765 +604,521 +182,244
1903 to 1917	+20 79 310	+12 661 602	+24 488 +1 810	+871 75"	+3,841 600	+1 247 801	+149 611	+1 112,892	+302,626 +2191 +1 624,593	+1 944 856 +1 641 710 +308 146	+ 177 760	+155 390	-510 233 -235 069 -275 164
	INDIA	Provinces	Ajmar-Menwara Andamasa and Nicobara	Amen Beluchisten	- Italian	Biltar and Orless Biltar	Odest Gots Negpar	Bombay (Producery) Bombay	Sind Aden Burma	Contral Provinces and Berar Contral Provinces Berar	Coorg	North West Frontier Province (Districts and Adminiteral Territories)  Forth	United Provinces of Agra and Ondh - Agra Ondh

with three quarters of the total population, and a jest of 5 \$ per cent. in the remaining one-tenth of the area and one-lourth of the population The contrast in different parts of the Native States is still more striking. The net increase of 10 3 per cent is the outcome of a gain of 14 3 per cent, in four fifths of the total area and per come, in four artis of the total area and permination coupled with a loss of 6 3 per cent absorber. The relatively greater net increase in the Native States as compared with British territory is explained by the fact that many of the States suffered severely from famine in the previous decade when they statelined a net lose 68 m of 5 per cent. while British territory gained 4 7 mile

per cent. Apart from this, in ordinary circum Stances a comparatively high rate of increase is to be expected in the Native States, as they are, on the whole, more undeveloped than British territory and contain a much larger proportion of cultivable waste land. The net increase in India as a whole during the last decade is the resultant of a gain of 10 3 per cent in a area of 1517000 square miles, with a population of 245 millions and a present density of 162 to the and a line of 5 5 per cent in an area of 218 000 square mile, and a loss of 5 5 per cent in an area of 218 000 square miles with a population of 68 millions and a density of 312 to the square

### MIGRATION

In India there are two currents of migration— minor and major — The chief of the minor move-ments is the custom, almost universal amongst Hindus, whereby parents seek wives for their sons in a different village from their own Of the 26.5 million natives of India who were engagerated in a district other than that in enumerated in a district other than thit in which they were born in a district adjuding that in which they were enumerated. The major enumerated of the major enumerated of migration are governed by economic conditions. The most noticeable movements are the large streams of emigration from Bihar and Orisas, Madras, the United Provinces and Rajoutans and of immigration into Bengal, Assam and Burma Outing to its fertile soil, Bengal is able to support practically the whole of its dense indigenous population by appropriate they necessary therefore to man appropriate. agriculture It is necessary therefore to man the jute mills by imported labour as also the tea gardens of Dergling and Jalpauguri and to draw the general labour supply from outside. In Ben-ged the net caces of immigrants over emigrants is shown on 1 400 000 Of these short 236,000 are Mutres of a district in Blur and Orlsae, or am, contiguous to the Bengal district in which Assum, contiguous to the Bengal district to which they were enumerated. Assum and Burma are aparety populated and the land available for our straight of the state of the stat go each year to the tes gardens of Assam In Burron, Madras supplies labourers for the roc-usiling, odi and other industries, whilst many cooler fock into the province from Chittagong chiefly for the rice harvest. The net loss to Bihar The net loss to Bibar chiefly for the rice harvest. The net loss to Bihar and Orsam on account of indiration is about 15 millions. The United Provinces sustain a not less of about 800 600 from migration, chiefly in the direction of Bengal. Madras being very leadward from an industrial point of view there is no great local demand for leabour. At the same Sime there is an exceptionally large population of the "uptouchable" castes who have no soru eithe "uptouchable" castes who have no sorn
ples short seeking their livelihood overses. Commiss statistics naturally tell us nothing of the
provides Ceylon with labour for its plantations,
Barmas with labour for its plantations,
Patenated flatay States with labour for their
rubber plantations. The enterprising Marward
indicated Rapyutana have penetrated to all parts
of India and are to be found in very important
beausst throughout Bengal and syon in Amaza.

Bankagy is hallostellally more advanced the all parts
beausst, but as the soil is less graduative
very little movement from Burmas into Oblas

there is a large local supply of labourers chiefly from the southern coast strip called the Konkan The United Provinces give more than four times as many labourers to Bengal as to Bombay As for the migration between British India and Native territory it involves a loss of 135 000 to the Native States

Asiatic Immigration.—Of the 504 000 per sons born in other Asiatic countries who were resident in India at the time of the census, more resident in India at the lance of the control of the than half were notices of Nepal Of the 92 000 inumgrants from Afghanitan all but 11 000 were enumerated in Northern India. The rest were cold weather visitors who travel The rest were cold weather visitors who travel about the country peddling pleer-goods and other articles of clothing These Cabuh pedlars cause great trouble in Bengal by their traceleure The number of Chunese is 80 000 Most of these are found in Burma, but the thinaman is making his way into Eengal where he is appreciated as a shoomaker and car From Arabia come 23 000 mmluranta. hiefly to Bombay

Non Asiatic Immigration.—The total number of immigrants from countries outside Asia is 148 265 Of these 131 968 come from Asia is 140 200 of them for two comes and them france with 1478 As compared with 1901 there is an increase of about 23,000 in the number of immigrants from the United Kingdom Of the British born 77 628 were serving in the army as compared with 60 965 at the time of the previous census when a strong contangent had been sent from India to reinforce the British garrison in South Africa of the increase is accounted for by the industrial development which has taken place the exten development when has tened phase the carried as sign of ratioways, and the growing extent to which Hagdishauen in India marry. The number of ten il s born in the British lisands and enumerated in India has used during the decade from 14,603 to 19,494 The figures for other European countries do not call for any apecial comment

Emigration from India—The Indian consus statistics naturally tell us nothing of the

SUMMARISED (	SUMMARISED GROWTH OF THE INDIAN POPULATION	INDIAN POPULA	PTNOSKOLL		
	1901 to 1911	1801 to 1901	1881 to 1891	1872 to 1881	het variation in period 1872 to 1911 facrease (+) Decrease (—)
States and Aquicuss	+413378	-3 JIR 719	+11 000 325	+34 014 98	+19 889 929
Seem State (Manipur)	+61 "57				
Baluchktan States	ets 8-				
Baroda State	+80 100	102 201	+238 288	+184 200	+35 900
Bengal States	+82 266	+23 989	+14048	+130 484	+204 738
Bitar and Oriem States	+630 736	+286 456	+817 407	+686 /11	+8 221 \$00
Bombay States	+203 118	1 173 391	+1 144 067	+139 953	+618 706
Control India Agency	+859 175	—1 638 bBR	+874 498		
Central Provinces Startes	+48' 862	81 482	+35~ 268	+409 178	+1 188,888
Aydensbud State	+2 283 584	- 395 868	+1 691 446	_	
Lestindr State	+252,548	+361 626			
Madras States	+623 755	+487 464	+355 773	+56 4.3	+1 528,449
Mysore Blate	+590 791	+595 795	+757 410	-849 214	197 027+
N W F Province (Agencies and Tribel area )	+1 588 137				
Punjab States	211 604	+161 118	+401 597		
Bajputana Agency	+877 066	-2 318 888	+8 227 404		
Shirtm State	+28 606	+28 556			
United Provinces States	656 63+	909 6+	172 05+	+103 030	+103,814
	,	]	-j	_	1

but, on the other hand, it is believed that the senigration into the somewhat sparsely people Nepal term from some of the adjacent British districts, where the population is much connected exceeds the countervalling immigra-Very few people go from British territory to settle permanently in Afghanistan or Persia, but at the time when the last census Persia, but at the time when the last census was taken owing to drought in Beluchtstan a considerable number of Vomad Brahuds from Chagal, and of Baloch from Metran had pessed over temporarily into Afghanistan and Persia. At a rough guess the number of smil grants across the Indian Frontier may be taken to be about a fifth of a million

Emigration to Distant Countries.--- 0! the emigrants to distant countries a certain number find their way to French or Dutch Colonies such as Surinam, Martinique and Guadeloupe. But the majority go to other parts of the British Em-pire The total number of emigrants from India pire The total number of emigrants from inqua-to other parts of the British Empire slightly ex-ceeds a million of whom shout two-thirds are males more than four fifths of the aggregate are Hindus and only one-tenth are Mahomedans Of Hindias and only one-tenth are standardane UI the total number about 474 000 were end merated in Ceylon 231 000 in the Straits Bettlements and the Malay States, 83,000 in British Gulana 79 000 in Natal 51 000 in Trinidad, 85 000 in Mauritier 29 000 in 113 and 8,000 each in Jamaica and Zanzbar About one-fifth of these emigrants fall d to specify their province of birth of the remainder no less than 595 000 or 55 per cent were from Madras 32,000 from Bengal about 20 000 rach from the United Provinces and Bombay 18 000 from Bihar and Orism 18 000 from the Punjah and Bihar and Oriesa 13 000 from the Pinjab and 8 000 from the Mysore State. The number who emigrated from other parts of India was in considerable. Most of these emigrants to the colonies went as ordinary labourers in angar, tea, coffee, rubber and other plantations but a large number of those from Bombay and Bengal are lascars on ships, while many of the neityes of the Punjab are employed in the control of the property of the Punjab are employed in the army or military police

Caylon.—The movement to Coylon is of long-standing Owing to the rapid expansion of tea cultivation, the number of natives of

India enumerated in that Island increased by 65 per cent. In the decade ending in 1901 Bince then there has been a further increase of nearly 10 per cent chiefly on account of the new rubber plantations. The great majority of these emigrants are from the southern districts of Madras. Mysore sends about 8 000 Travan core 7 000 and Cochin and Bombay 3 000 each Nost of them are temporary endgrants, who return after a time to their homes in "outhern India The total number of Tamis can-India The total number of Tamils enu-merated in Coylon exceeds a million but about half of them have been domiciled in the Island for many centuries and barely 100 000 are the olianring of recent settlers

Malaya.—The endgration to the Straits Settlements and the Malay States is of quite recent growth and is due almost entirely to the demand for labour on the ribber plantations Most of the endgrants are temporary settlers who return to their homes when they have saved a little money and the total number of Ledens enumers. homes when they have saved a little money and the total number of Indians enumerated there exceeds by only 12 per cent the number who returned to India as their birth place. Almost four fifths of the total number are males. Here also Madras is the principal source of supply, the Punjab (6.754) being the only other province which sends an appreciable.

South Africa—In Natal there has been a great deal of permanent settlement and of the total number of Indians enumerated there, near ly half were born in the colony. Many of these have forgotten their native language and now talk only English But it is in Vantitus that the process of colonisation has made most beadway. The introduction of Indian coolies to work the sugar plantations dates from the emancipation of the slaves three quarters of a century ago and from that time onwards many of the cooles who have gone there have made the island their permanent home Though it now contains only 35 000 persons who were born in India, the total so our persons who were born in India, the total number of Indians is 254,000 or about "0 per cent of the whole population. A large part of the island is now owned by Indians, and they are dominant in commercial agricultural and domestic callings.

#### RELIGIONS

India is a land of many religious. All the was that which followed the Mahomedan great religious is the of mankind are represented to interpolation by communities, whose origin to the country by the Portuguese. They also carries us back to the early history of their residence of the country by the Portuguese. They also dispose of another erroneous idea that up to provide the country had been an autochthonous. The Jews of Cochin have iraditions which carry their way, into the country No doubt Greeks, back their arrival on the coast to the time of the Mahomedan conquest, Hindulesm should have residence by the reversible under Cyrus in the into the structure of Hindulesm but the fact that each the through the residence of the structure of Hindulesm but the fact that the stablishment of their original Church to the Apostie St. Thomas in the year 52 AD If we may haven a conjecture it would seem queron, a peaceful trading colony of Arabs had settled on the Mahabar coast. The Paris etch is the same portion. There facts are recalled here because hot only Europeana, but awas entered the country through the mountain passe in the North-West and knew something of the land which lay speak as if the first foreign sotilescents in ladias, beyond But the near was always something speak as if the first foreign sotilescents in ladias of a mystery send a terror to han, and those India is a land of many religious. All the was that which followed the Mahomedan

	1911	1901	1891	1881	1872
	,	-			,
CATABORE AND BORT *	896 067	847.198	682 305	612.807	633,000
Postner And Anna	979 446	776 000	921 764	773 1196	400
Manual auth Camping went	514 660	509 346	452 51R	400 848	200 CFF
Acres and Charlement	185 449	270 881	168 662	160 203	140 000
Abmedated and Cantonment	274 913	18~ 880	143 412	127 621	279 STT
Allshahad and Cantonment	171 697	3 1/4/1		017.007	200
	94.08	167.490	1.38 766	151 896	185 818
American and Canton Dept.	1150 PM	80 600	180 081	93 540	81 810
Benefit and Contemporary Stateon 1	129 462	138,167	1,2,837	115 188	104 583
Renews and Centon ment	28 S.S.	213 079	223 375	218 573	178 800
Commons and Contournell	178 55	502,797		150 469	120 67
The contract of the contract o	1090	89 733	81 585	18 869	ONG NA
		714 000	24. 90	174 200	154.417
Delia and Contournent	6326 832	10000	110 909	31H 00	690 78
Howmh	179,0KB	157 584	110 000	417 AN	
Hydembad and Cantonment	900 053	100 101	100 P	142.578	
Juryar	137 095	10100	286.82	76 093	66. 469
Jubbadpore and Cantenness	200	116608	101	73.580	26 758
Margold and Cantonings	ror ror	2000			
4	299 A37	20V2.9P.4	1.6851	157 287	126 413
IADOF and Cantoninent	950 208	604 049	273 U.B	201 303	284 773
LANGERDOW AND CAMBODINGS	0°1 H21	105 984	87 428	78 807	61,987
Mandalon and Cantonment	138 290	143 816	188 H1E		
Manufacture of Content of the	116,227	118 129	110 890	30000	96. To 3
Appropriate Apple Common Commo	101,416	127 734	117 014	663.83	<b>‡</b>
	-		-	170 854	159 000
Patha	136 133	134 785	741 00	130 251	119 896
Poors and Cantonment	158 856	16.3 8.20	101 010	134 176	98 786
Bangoon and Cantonment	283 314	24 ) 430	0.00		2
Schools and Chatonment	170 344	010 771	066 001	109 844	107 865
Surat and Contombent	114 363	90% 811	000	84 440	8. 8.
Treblaspoly and Canton ment	214 871	17. #AI	2		:

† Bangakore City and Bangakore Civil and Military Station are structurally a single unit but for the purpose of the census they have been troated as separate places. separate Municipal administration, but for all practical purposes they form an integral part of Calcutts. So also dose Howrah estely to the fronty. If they do not consider the fronty. If the interpolative but to population of Calcutta Esses to 1,043 Jul. However, the fronty of the conses so 1 1223 Ji. However, I interpolate the consession of 1 222 Ji.

who came from beyond the sea were looked of themselves have made such activity difficult, apper as beings of a different clay. They were resisted hospitably, and in course of time they resisted much of the influences of their rejection and the existence of some agency of referring the difficulty of selection. As Histan corrisonment, But they remained all a fact, however, we find that Himilian has textus same separate communities, and no attempt exercised very little selection and that it covers practically all the beliefs and constons which prevail amongst the tribes who are to members of the higher castes is another included within its pale. Such a state of proof of the peculiar prejudice which ancient is higher castes that the provided excitations are the provided and the provided excitations are the provided and the provided excitations. names caverinonment. But they remained all this same separate communities, and no attempt was made to incorporate them in the great same of Hinduism. The prolution of sea voyage to menulers of the higher castes is another proof of the peculiar prejudice which ancient lasting chertained against inhabitants of countries divided from India by intervening seas.

Crists of Hinduism —We have apoken alone of Hinduism as being autochthonous The opinion generally held is that the ancestors of the bold Indians were imaginants from Contral Asia. An Indian scholar of some repute has recently endeavoured to show that the received opinion is not borne out by the evidence available in the ancient literatures of India. Whatever may be the value attaching to his contention that the Vedic Indians were not immigrants or descendants of immigrants. not immigrants or descendence or immigrants or descendence of the indigenous population addicted to the cult of fire-worship it is true as he says, that there is no expression is the Vedas of a longing ingering remembrance of a foreign homeland such as one might expect. to find in the literature of an immigrant race This is all the more remarkable as an intense attachment to the land they lived in is manifest in all their compositions. A San krit complet in all their compositions. A San knt complet in which the names of the seven great rivers of Inda, the Ganges, the Junna, the Godavari, the Saraswati the Nerbudda the Indus and the Saraswati the Nerbudda the Indus and the Cavery are strung toccher in pious praise is rectical daily by millions of Hindus at their daily devotions and helps to keepsters in mind of the sanctity of the Indian Continuate in Hindu eyes. If the ancient Hindus were immigrants, they not only took exceptional care to blot out all memories of the sand from which they came from their own minds, but they also strove by every means in their power to bind the reverence and love of their power to bind the reverence and love of their power to bind the reverence and love of their power to bind the reverence and love of their power to bind the reverence and love of their power to bind the reverence and love of their noticetity to India as the land pare accelerance of the mer Hindu in the orthodox acceptance of the term, is not applicable to anyone so that the name Hindu in the orthodox acceptance of the term, is not applicable to anyone who is not born in India. If the ancestors of the Hindus were foreigners in India, they must have set themselves as a matter of atthemned policy to intertwine the desperations and the highest aspirations of their mace with the land in which they had settled to the entire exclusion of the land whence they had settled had come.

Evolution of Hinduism.—Following from the theory that the ancestors of the Hinduism were immigrants from Central Asia, is the explanation generally given of the varieties of religious beliefs and social practices to some within the pale of Hinduism Hinduism it is the common kides, was originally a pure and stropic creed which has bad to compromise with the Aminism of the promisering amongs. ages turner eres which has plan to compromise with the Animism of the population amongst when it spread, by accepting several of its gostfless and supervisitions. The greatest chartest in the way of this explanation is that charticle in the way of this explanation is that and highly important place amongst the relification is selections whatsoever of any organization gloss systems of the world. The reason why asked applicancy activity amongs the Hindrig it does not fit into our definition of religion at any time. The impresse distances and the is that it represents a fundamentally different absence of means of congunitation, would like of wrotation in the history of religious

the pure forms of Hindulum are highly evolved stages of the cruder forms which are still observed by the less educated and prosperous sections of the community This view namely that the higher forms of Hindulum are evolved from lower ones rather than that the latter are corruptions of the former gams support from what is now generally accepted as being the true explanation of the origin of certain social customs. Twenty years ago it was generally held that the custom of child mar generally nest that the custom of cand mar-riages, for Instance, was of sacerdotal origin and was most largely privalent amongst the higher castes from whom it spread to the lower Recently however it has been proved that child marriages are prevalent for more largely and in a far grosser form amongst the lowest castes than amongst the higher castes, and that amongst the latter it is a survival from the times when the caste system was less rigid and intermarriages, that is to say the taking of wives by the higher castes from the lower were common. It may be added that the two most characteristic bellefs of Hinduism, namely that in the transmigration of souls and in the law of Kasma on retribution, are held with if anything more tenacity by the lower than by the higher castes

Scope of Hinduism.—From this point of view the varying beliefs and customs which go under the name of Hindman not only offer no difficulties, but furnish the right olue to the no difficulties, but furnish the right clur to the understanding of this unique socio-religious system. They explain why the term religion as applied to Hinduism does not adequately express its scope and method Hinduism has no settled creeds which are obligatory on every Hindu. It enfurces no fixed and uniform moral standards on the innumerable sects and castes which bear its name. It extends its suffrages to monogamous polyganous and even polyganous and even polyganous and even polyganous and even polyganous and in the case of the so-called devadura countenances a life of open irregulanty. An indican newspaper recently instituted an interesting discussion on the question "Who is a Hindu An eminect Hindu away who teresting discussion on the question while is a Hindr An emment Hindra lawyer who subsequently rose to be a judge of one of the Indian High Courts, laid down that a Hindra was one to whom the Indian Courts would apply the Hindra law The learned lawyer however, forgot that there are Mahomelan castes which follow the Hindra law in regard to the inheritance of and encounded to property

And yet, though Hindulem retuses to conform to almost every one of the ideas which we usually associate with the term religion " it is impossible to deny that it occupies a unique

# STATISTICS OF RELIGIONS

Religion	India.	British Provinces	Native States
India	915 15 <b>6 °9</b> 6	244 267 542	70 888,854
Hindu	217 586 892	163 621 481	58 965,461
Brahmanio	217 837 943	163 881,380	58,986,569
Arya	243,445	234 841	8,604
Brahmo	5 504	5 210	294
Sikb	8,014 466	2 171,908	842,658
Jajo	1 248 192	458 578	789 604
Buddhist	10 721 458	10 644,409	77 044
Zomastrian (Patel)	100 098	86 155	13,941
Muselman	66 61" 209	57 428 889	9 228,410
Christian	3 876 203	2,492 284	1,383,919
Jew	20 980	18 524	2, <b>45</b> 6
Animistic Minor Religions and Religion not returned Not enumerated by Beligion	10,295 168 37 101 1 608 556	7 348 024 2 840	2,947 144 84,781 1 608,656

# POPULATION ACCORDING TO RELIGION AND EDUCATION (CENSUS OF 1911)

		Males		
Religions.	Total Population	Illiterate.	Literate	Literate in English
Hindu	110 865 781	99 642,697	11 923 184	1 018 896
Stab	1 784 73	1 550 810 °	184 163	11 400
Tain	643 553	324 968	318 585	13 080
Buddhist	5 286 142	3 151 761	2,134 381	21 767
Parsi	51 123 34 709 366	11 128 32 819 599	89 995	95 <b>884</b>
Muhammadan Christian	_ 010 724	1 422 154	2 389 766 583 570	178 061 252,591
Animistic	5 088 241	5 084 408	53 833	1 521
Minor and Unspecified	28 818	22 430	6 888	2,981
Total Males	160 418 470	148 479 655	16 938 815	1 518 361
		Fems	les	
Hinda	106 720 714	105 905 904	814 810	23 069
Blich	1 279 867	1 262,387	17,280	£\$8
Jain	604 629	<b>⊳</b> 80 509	24 120	202
Buddhlet	5 436 086	5 117 748,	317 838	1,883
Parsi Muhammadan	48 978 31,888 812	17 755; 31 746 005	81,218 187 807	8,847
Munammacan Christian	1.865 472	1 613 177	252,295	8 940 112,648
Anivolatie	5 129 803	5 126 816	2.987	1 (2,049
Minor and Unspecified	29,263	26 855	2 908	1,588
Total Females	152,996 919	151 898 156	1 600 788	152,026
Total Population	318,415,889	294,875 811	18,589,578	1,670,567

thought In other races the line of evolution But even in it, we can, by reading between was from polytheless to monotheless, but in the lines, discover the existence of rival sects. India it was from polytheless to the higher Even the Vedas themselves are the literature particular. Contrasting the development of probably of one of several sects which happened the Judaic idea of God with that of the Hindus to be gifted with a talent for letters. The Dr. Harold Hadding observes. With the Hedus there was no God who claimed sole sway they went hack to the power which maskes all gods what they are, to the inner appirations and noeds which find vent for themselves in prayer and sacrific Following an extremely remarkable line of thought themserves an insyer are accessed to thought that which drives men to worship gods was itself regarded as the true divine power Brahma meant originally the magical creative word of prayer but it afterwards came to denote the principle of existence itself so the meant originally the magical creative word of prayer but it afterwards came to denote the principle of existence itself so the meant originally meant to the dea of that we have a transition from the idea of motion towards to that of its goal from prayer to the object addressed in prayer. The Indian to the object addressed in prayer by the object saw the whole universe transfused and overspread with Derty He perceived how evil was being perpetually transformed to good by was being perpension universities to know in the cosmic process spreading out before the poet and the philosopher endless and timeless to whom the evil and the good seemed but different stages in a great common process of which the secret was known only to the Supreme Bolzs. No European writer has caught the innermost essence of the Hindu philosopher a idea of the Supreme, so faithfully and expressed it so felicitously as Sir Edwin Arnold in hi Light of Asla

Before beginning and without an end, As space eternal and as surety sure Is fixed a Power divine which moves to good,

Only its laws endure

It is not marred nor stayed in any use All liketh it the sweet white milk it brings To mothers breaste, it brings the white drops too.

Wherewith the young snake stings It slayeth and it saveth nowise moved Except unto the working out of doom Its threads are Love and Lak Death and Pain

The shuttles of its loom It maketh and unmaketh mending all What It hath wrought is better than had

Slow grows the splendid pattern that it plans Its wistful hands between

The ethical values of Hinduism are not different from those of other great religions. Like them it attaches little importance to the qualities which make for wordly success and most im which make for wordly success and most im-portance to self-sacribee humility and kindli-ness to all Only its methods differ On the whole, however the Hindu scolor-religious achiene, owing to its tendency to make the individual human belong a passive instrument in the hands of a Higher Power instead of an active co-operator with it, has favoured stabi-lity at the expense of progress.

ally ceased, but this is because the literature that has come down to us is the literature of the set that came to supposed all others or 60 4 per cent of the total population of

probably of one of several sects water inspection to be gifted with a talent for letters. The rapid multiplication of sects, however was undoubtedly encouraged by the introduction of idel worship in limitation of the practice of decadent. Buddhism Hisdu religious or decadent foundment theory religious philosophers recognised three ways of salvation namely the way of knowledge the way of faith and the way of services. Every sect of faith and the way of service. Every sect of Hodusm recognises the value of all these three ways but it differs as to the relative importance to be attached to each. The sect of the great philosopher Sankaracharya, who maintained that the supreme Being was the only Reality and that all the phenomenal universe was Mays or illusion and that salve the not discard faith and service altogether but only any these an atherdistant resistant. but only gave these a subordinate position in his scheme of religion Ramanuja Madhya and Vallabhacharva who followed him and and valiablecharve who followed him and in more or lee degree refuted his doctrine of the non-relate of the phenomenal universellaid more stress on faith and service than on knowledge but the discard the path of knowledge altogether. It should be men though here that it has been the great missfortune of Hunduign that the path of vertice has come to meach the arthur of forestimes. come to mean the path not of altralatic service to mankind but the path of service conceived in a coremonial arms to private, religious recluses and mendicants and to idols. It is the great sim of the modern religious reform movements such as the Arya Samaj and the Brahma Samaj to rescue the path of service from this epimons interpretation and to make attruistic social service an integral part of religion. The ques service an integral part of rengion and ques-tion of sect however does not play a very important part in Hinduism Except in Southern and to a much smaller extent in Western India, the frest mass of the Hindus are not sectained in Southern India the Vainhavas and Madhyas will on no account worship three or visits a tripple dedicated to him. The Linguagests are a Shivas sect found in the Karnatak districts of the Bombay and Madras Presidencies and in Mysore and they have an invincible repugnance to the worship of Vishnu. But these are exceptional instances But so far as the bulk of the Hindus are con cerned, they resort to the nearest shrine whether it be dedicated to Shlva or Vlainu The attitude of Hindulan to other religious is that they are each of them the most suitable path to salvation for the people who are born in them—that they are all several roads which lead to Heaven For this reason Hindman lead to Heaven for this reason himmism has never been a procelything religion. This has proved a disadvantage to it face to face with such religions as Mahomedanism and Christianity which not only admit converts, but are actively engaged in seeking them. The proportion of Hindus to the total population has steadily diminished during the last forty Hity at the expense of progress.

Minds sects—Hindulam is made up of many sects and cubs. It is usual to speak of Hindulam as it was before Buddhiam, as a single cred, but this is because the light cased. It is the section of the higher and literate classes have practically ceased.

# OCCUPATIONS OF THE INDIAN PROPERS

TNDIA	813,470 014
-PRODUCTION OF BAW MATERIALS	227 080 099
I — Exploitation of the Surface of the Earth Pasture and agriculture	226 550 485 224 595,900
(a) Ordinary cultivation (b) Growing of special products and market gardening (c) Forestry	216 797 137 2,012 508 672,095
(d) Raising of farm stock (*) Raising of small animals Fishing and hunting	5 17 <b>6,1</b> 04 48,068 1 8 <b>54,</b> 588
II — Extraction of Minerals Minre Quarries of hard rocks Salt sic	529 606 376 925 76 424 78, <b>366</b>
3 PREPARATION AND SUPPLY OF MATERIAL SUBSTANCES	ا 1 <b>01,12</b> 1
III Industry Textiles Hid: a sking and hard materials from the animal kingdom	35,928,041 8,306 501 698 741
Wood Metals Ceramics	3 799 892 1 861,445 2,240,210
Chemical products properly so called and analogous Food industries Industries of dress and the toilet	1 241 587 8,711 676 7 750 609
Furniture industries Building industries Consideration of means of transport Production and transmission of physical forces (heat light electricity notive power etc.) Industries of inxury and those pertaining to literature and to arts and sciences Industries concerned with refuse matter	39 265 2,082 496 65 056 14 384 2,141 968
IV —Transport Cransport by water Transport by road	5 028,900 982,760 4,781,984
Transport by rail Post Office telegraph and telephone services	1 062 498 201,787
V —Trade  Banks, establishments of credit, exchange and insurance Brokerage commusion and export	17 839 701 1,220 187 240 856
Trade in textiles Frade in skins leather and furs Frade in wood	1 277 466 296,719 224 885
Trade in metals Trade in pottery Trade in chemical products	59,766 101 981 171 997
Hotels, cafee restaurants etc Other trade in food stuffs L'a le in clothing and toilet articles Trade in furniture	719 055 9 478,8 <b>6</b> 6 906 701 179 415

India. That Shirts and Jains together number 11,000,005 Thus 200 556,527 or about 75 per cent. of the Lidian people depend for their spiritual sustenance on Hinduism and its oftenoots.

The Buddhist population is mostly Burmese, Buddhism having ceased a thousand years ago to cease as a leading religion to the land of its birth. Several reasons are usually given to account for the hostlity of Hinduism to Buddhism such as that Buddha denied the authority of the Vedas Jainten did all this and yet Jains to-day occupy a recognised position in the Hindu social system. The real reason for the Hindu hostility to Bud dhism was that it influenced and was in its turn dhiam was that it influenced and was in its turn influenced by in the later years of its prevalence in India, the allen Mongollan consciousness. Hinduism has always been extremely tolerant of indigenous herestes, but it is jealous of outside influence. Indian Buddhiam too had become extremely corrupt and superstitutions long before Hinduism re-crtablished itself as the religion members of the Control of the pre-eminently of the Indian people

Other Indigenous Religious -- Buddhism and Jainism were originally only sects of Hindulam Jainism even now is not so sharply divided from the latter religion as Buddhism Jains are everywhere a recognised section is Jame are everywhere a recognised section of Hindu Society and in some parts of the country there has been an increasing tendency on their part to return themselves at the Census as Hindus The outstanding testure of Jainiam is the extreme sanctity in which all forms of life are held. The James are generally bankers and traders. Their number at the last Census was 1948 182, the apparent decline being due to the tendency noted above for Jains to return themselves as Hindus. Buildhian is professed but by few persons in India. The Buildhist population of the Indian Smoother is mainly Burnesse. Their number is 10,721 653 The founders of Buddhism and Jalakan are believed to have been contempo-

Guru Nanak, flourished in the latter half of the Gurn Nanak, nourished in the latter half of that 15th Century of the Christian ers. Nanak's teaching amounted to nothing more than pure Theim. He taught that there is only one true God, he condemned idolatry proclaimed the fullity of pilgrimages and rites and ceromies and declared that the past to assivation lies through good deeds combined with devotion to the Supreme Being. He presented the brotherhood of men. Sixhum continued to erist as a pacific cult till about the end of the saventeenth, century, when the persecutions. eventeenth century when the persecutions of Aurangach had the effect of converting it into a militant creed. This momentous change was accomplished under the direction of furn Govind, the tenth and last of the Gurus

shall send a sparrow he once exclaimed and lo I the imperial falcons will fly before it.
On his death hed he exhorted his followers to On his death had he exhorted his followers to regard the Granth, the sacred book of the Sikhs, as their Granth, to look upon it as the person of the living Guru. After his death sithism pased through a period of despect gloom but it soon recovered and in 1758 the Sikhs entered Lahore in triumph. The teachings of Guru hanak have profoundly affected Hindu thought and the in the Punjab, though the number of persons professing the Sikh religion is only 8 614 468 according to the 1911 Census. This ripresents an increase of over 40 per cent. since 1801. Two other religious movements, of shoots of Hinduism remain to be monthoused, namely, the Brahmo-Samaj and movements, on notes of ripidus for remain to be mentioned, namely the Brahmo-Samaj and the Arra-Samaj Both of them are less than one hundred years old. The founder of the one hundred years old. The founder of the former was Raja Ram Mohan Roy and of the lottines was nave and morning and of the latter Swami Dayanand Sarsawati The Brahmo-Bamal does not believe in an infallible scripture while the Arya Samal accepts the Vedas as Divinely revealed Both the movements are opposed to Holsaty and favour social reform The Brahmo movement appealing as it does to the cultured intellect has not been making as much progress as the Arya-damaj The number of persons professing each of these creeds is 5 604 and 243 445 respec statisment of the seasymed somewhere in the state of the seasymed somewhere in the state of the seasymed somewhere in the state of the seasymed somewhere in the state of the seasymed somewhere in the seasymed somewhere in the seasymed somewhere in the seasymed seasymed the seasymed

#### Non Indian Religious

Mehomedanism —Of non-Indian religions, that is, of religions which had their origin outside India the religion which has the largest number of followers in this country is manomedanism. One hundred years bettore the Mus-sulmants obtained a footbod in Bind by right of conquest they were settled in Cochin as traders and missionaries. The author of Cochin Tribes and Castes refers to a tradition that in the "th Century a Mahomedan merchant mamed Malak Medina, accompanied by some priests, had actived in or near Mangalore The Rollam era of Malabar dates, according to special transition, from the departure of these permanents and that it could not be destroy arms. Paramal, the last of the Permane Kings, to Armbia, on his conversion to Islam. The data twith continuement of the ear is the 55th Armbia, on his conversion to Islam. The data twith continuement of the ear is the 55th Armbia, on the commencement of the ear is the 55th Armbia, so The village Maulinan of the history of the commencement of the ear is the 55th Pirs or Saints. The village Maulinan of the history of the continuement of the early the continuement of the early that the continuement of the early of the commencement of the early that the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of the early of the continuement of popular tradition, from the departure of (heru-man Paramal, the last of the Permusi Kings, to

the customs and beliefs of Hindnism. The writer of the article on religions or India in the new edition of the *Imperial Gazetteer* observes of Islam in India. If it has gained some converts from Hinduism it has borrowed from it from the original faith of Arabic By degrees the ferrid enthusiasm of the early raiders was softened down the two religious learned to live side by side and if the Mahomedan of to five sing by sine said if the anaconstant of the later days could never conceal his contempt for the faith of his 'pagan neighbours, he came to understand that it could not be destroy

# OCCUPATIONS OF THE INDIAN PROPLES-confe

- <del></del>	
Trade in building materials	84 613
Trade in means of transport	230 396
Frade in fuel	524,952
I rade in articles of luxury and those pertaining to letters and the arts and exerces.	529 190
Trade in refuse matter	8,695
Trade of other sorts	2,102,584
C-Public Administrations and Liberal Arts	10 912 123
VIPublic Fores	2,898,586
Army	565 278
Navy	4 540
Police	1 728,665
VII -Public Administration	2 648 005
VIII -Professions and Interal Aris	5 325,367
Religion	2,789 489
Law	302 408
Medican	626 9CD
Instruction	074,80°
Letters and arts and sciences	951 10"
IX -Persons hiring principally on their Income	649 17
D —Miscritarbors	17 286 678
X — Domestro Service	4 889 090
XI -Insufficiently described Occupations	9 236 210
III - Unproductive	3 451 951
Inmates of Jalis asylums and bospitals	132,610
Beggars, vagrants and prostitutes	3 318,771
	{

# DISTRIBUTION OF THE POPULATION

India	British Provinces	Vative States
1 2		l
	3	4
Area in square miles  Vumber of Towns and Vilages (a) Towns (b) Villages (a) Towns (b) Villages (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (c) In Towns (d) In Towns (d) In Towns (e) In Towns (e) In Towns (f) In Towns (h) In Villages	538 840 1 452 637 357 49 140 947 4,409 121 44 781 826 24 287 716 221,449 827 124,678 629 12,536 630 112,847 861 110,828 851	709 583 183,686 701 192,965 14,569 2.32 1629 856 12,940 997 70 888 854 6 930 513 53,953 241 2,582,770 24,423 610 3,346 039 31,079 571

two main and several minor sects. The major ever main and several minor sects. The major sects are the Shiah and the Sunal. The great majority of Indian Musculmans are of the latter sect. The Punjab and Sind in the North West and Beat Bengal in the North East are the strongholds of Islam in India. The Musculman population of India according to the Cenase of 1911 is 86 647 269. Of this number no less than 24 millions are in Bengal, about 12 millions in the Panjab and about 5 million in the United Provinces Amongst Native States Kashmere has the largest Mussulman population about 2 millions

Christianity -Indian Christianity has an even longer history than Indian Mahomedanism the Syrian Ohristians in Valsbar the intro-duction of Christians in Valsbar the intro-duction of Christianity and the establishment diction of containing and the communication of the Original Church in Malabar in the year 52 A D are as reflect to the Apostle 8t Thomas, who landed at Crangapore or Vivelria converted many Brahmus and others, ordered two Prosbyters, and also founded seven churches six in Travancore and Cochin and the seventh in South Malabar (Cochin Castes and Tribes Vol II Chapter XVI, p 430) The history of Roman Cathollerson in India dates from the beginning of the sixteenth (entury Protestant mission was established two cen Protestant mission was established two centuries later by the Luthersans who started their work in Tranquebur in South India under Danish protection. The Christian population according to the last Gensus, numbers 3 × 8 203. Nearly 2 millions are inhabitants of the Madres Presidency and the Native States connected with it. Bihar and bombsy have each over 200 000 Christians.

Zoroastrianism — This religion was brought or brought beck to India in '1' A D by Par is who, fleeling from persecution at the hands of the Museulman conquerors of thur native land sirrived at the little port of Sanjan sixty miles month of Bombay in that year According to the Indian antiquarian scholar the late Rajen draid Mirrs the ancestors of the Hindus and Pards dwelt together in the Punjab when a religious schild to the latter coronairs that religious schism led to the latter retracing their steps to Persia. This theory derives probability from the names of the ben flores and malefic delties referred to in the Hindu and Parsi sacred books What is most striking in the

relations of the two faiths, is " writes Mr. Crooke in his article on the Beligions of India in the In the action on the beautions of anisk in the function of that in the Avesta the evil spirits are known as Daeva (modern Perdam Div) a term which the Indo-Aryans applied in the form Deva, to the spirits of light By a similar inversion. Asira, the name of the sods in the Rig Veda, suffered degradation and it a latter date was applied to evil spirits but in Iran, Ahura was consistently applied but in Iran, Ahora was consistently applied in the higher sense to the delby especially as Ahura Marda, the wise to the Supreme God The Iaris's have two sects. The principal difference between them appears to be that the holy days of the one precede those of the other by shour a month. The number of Parsis as cording to the last c-mans is 100 006. The majority of the Parsis live in Bombay.

Jews—The Benlismal at Kolaba in Bombay and the Iwa at Cochin are descendents of a scient Colomba. The Kolaba Colomba dates back to the little century and the Cochin colony to the second century AD Both Jewish colonies recognize a white and black section the latter being those who have more completely coalesced with the native population. The Jews numbered 20 980 at the consum of 1911

Animists.—Since the Consus of 1891 an attempt has be nonad to enumerate the Anual its separately from the Hindus 10 20 108 persons are classed as Animists according to the last tensu. The difference between Animism and Anthropomorphism, has been stated by Protessor Westermark, to be that while the annulat worships inabinate objects as gods Anthropomorphism consists in the worship of such abjects as representatives and reflection of the Deity As a subtle dis-tinction of this kind is not within the grasp of the average enumerator the category of Articular in the Cennus Schedules is largely conjectural Mr. Crooke in the Imperual Carlets of the Sun a tlassification is of no practical value simply because it ignores the fact that the fundamental religion of the me fact that he indiamental reagion of the majority of the poople—Hudiu Buddhist or even Mussulman is mainly Aulmistic The passant may nominally worship the greater gods but where trouble comes in the shape of disease drought, or famine it is from the older gods that he seeks relief

#### SOCIAL INSTITUTIONS

Uniformity of Indian Social Life.—
Though India is a land of many religions and in India which has not been more or less infected though each religious community has as a by the caste spirit. The Jews the Parsia, reds, lived spart from the other communities the Christians, and even the Mahomedans for centuries still there is a considerable uniformity in the arrangements and institutions formity in the arrangements and institutions of their social life. The social system of the Hindu state of the Indian is the type to which all other communities domiciled in the country have better to enforce the control of child marriages and of unnities domiciled in the country have better to eliotect widowhood, and the feeling that control of the country have intended to repriorm. To a large extent this text with persons engaged in certain countries. tended to conform. To a large extent this uniformity of social arrangements is clearly due to the fact that amongst the Mahomedans

tact with persons engaged in certain occupations is polluting in view of this general similarity of the world institutions of the several due to the fact that amongst the Mahomedans and induan Christians for instance, the consumers and induan Christians for instance, the consumers from Hindulan continued to retain their sold lease in regard to social conduct. To a of them all will give a general idea of the social smaller extent the motive which influenced life of the Indian population as a whole It them to contourn to Hindu social ideal has should, however be mentioned here that, been the convenience thereby caused in them in recent years, as the result of a growing need intercourse with their Hindu neighbours.

Caste—The most conspicuous social institution of India is Caste Caste is based on birth. The effect of caste is to divide society into a number of vertical sections and not as m modern countries, into horizontal sections. The economic and cultural differences among the members of each caste are great. The millionaire and the pupper the scholar and the illiterate of one caste form a social unit. The rich man of one easte must seek a husband for his daughter among the poor of his easte if he cannot find one of a corresponding position in life Hr can on no account think of marrying her to a young man of another caste though as regards culture and social position he may be a most desirable match. Thus each caste is within their a democra y in which the poor and the lowly have always the upper hand over the rich and the high placed. In this over the rich and the high placed In this way the system of coste has in the past served as a substitute for State relat of the poor by means of special laws and institutions To some extent this is the case even new but the conomic pressure of these days and the in fluence of Western education are profoundly modifying the conception of tester. The growth of the English-deucated class on the one hand, and of the modern industrial said converse is and of the modern industrial and commercial class of Indians on the other with common class of Indians on the other with common sapirations and interrets, is a factor calculated to undermine the importance of caste Al though for purely social purposes it will no doubt linger for many years longer it bound ultimately to collapse before the intellectual and economic influences which are moulding modern India The question how casts origi nated has been discussed by several learned Orientahets but the latest and most authori tative opinion is that its rise and growth were due to several causes the principal of them being differences of race and occupation. The occupation four original castes of the Hindus have multi four original castes of the Hindus have multi-piled to nearly two thousand, owing to the fisalparous tendencies of Hindu social life Some large castes consist of many thousands of families while others, notably in Gujarst comprise scarley a hundred houses. Among Indian Mahomedans there are several com-munities which are virtually castes though they are not so rigidly closed as Hindu castes. Indian Christian converts in some parts of the country tool t on maintaining the distinctions of their original eastes, and in a recent calcone caste of Indian Christians contested in one casts of house training of their Bishop dis-allowing the exclusive use of a part of their church to members of that casts. The Parsis are practically a caste in themselves observations regarding ea to a ply more or less to the institution of the joint family of which really the former is an extendion. This institution is repidly breaking up though the rigidity of the Hindu law of succession operates wholly in its favour

made by many of the Indian communities to which reference is made in the foregoing to discard whatever is in disaccord with the criginal simplicity of their respective laiths. But this movement has as yet touched no more than the highly educated fringe and even among the latter there are thoughtful merely part of the last critique to distrust "revivals as substitutes for reform" along with hier dean measure runs of the practice which prevailed particularly among the high casts. Hindus in Bengal was eventually suppressed by levislation. But the discussions which counted in connection with set question which ended in conficulty with 16th question had to the exposure of the hard lot of Rindu widows as a class. Remarkage was prohibited and as child markages were common several young girs were condemned to lead a life of celibacy on the death of their husbands. This last to improperly a cold infanticle by correct led to immorality and infanticide by voung widows who were anxious to hide their shame was not introduced. Lod by the Pandit Ishwar Chandra Vidyassgara a very learned Sanskrit scholar a movement began which had for its object the removal of the ban on the remarriage of Hindu widows. The Pandit was able to prove from the Hindu religious books that the prote from the find religious books. That this remarriage of widows had the sanction of antiquity. Int it was necessary in order to establish the validity of the remarriage of Hindu widows, beyond doubt to have a law passed by the Legislative (unicil of the Governor Committee Legislative (unicil of the Governor Committee Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Governor Legislative (unicil of the Legi General of India The Pundit and his followers memorialised Government There was strong opposition from the orthodox masses but the opposition from the orthodox missees but the Government of the day were convined that justice was on the slid. of the reformers and the Hindu Wildow Remarkage Act was passed. The controvens on the quistion of the remarkage of widows led to other consequences. It was left that the nie at which pink were married was absurdly low and that child marrianes were at the root of many social will be the weekley that the convent litterature. It was also realised that the general illiteracy of Indian women was the greatest obstacle in the way of reforming social customs and that education of women should be the first plank in the social reform platform. The earliest social reformers in India were the Brahmo Samajista who disardred idolatry and caste. Other references since then have and caste. Other rejumers store then have ondeavour of to propagate ideas of social reform entirely on a secular basis. The Indian National Social conference is their principal cula and Illstrict Conterences and Assolutions, and it is supported by Irovin chall and Illstrict Conterences and Assolutions. Social reform ideas have made considerable headway during the last twenty five years. Wildow marriages are of weekly occurrence in some provinces. The restrictions of caste as to inter-dining and sea voyage have lost much of their force. The age at which girls. much of their force. The age at which girls are married is steadily it slowly rising. The education of girls is making raid progress. An increasing number of them so to bigh Schools and Colleges every year But the most significant testimony to the apread of social reform kless in the country is the remarkable diminution in the volume and weight of the opposition to them. The number of journale devoted to the social reform cause is increasing and some of the newspapers which had made themselves conspicuous by their virulent opposition to social reform twenty The Social Reform Movement—The years ago now recognise its utility and im social reform movement shong the Hindus

#### SEX.

In India as a whole the proportion of females per thousand males rose steadily from 954 in 1821 to 862 in 1901. It has now fallen again to exactly the same figure as in 1831. The important aspect of these figures is the great contract they show between India and Europe where the number of females per thousand make varies from 1098 in Portugal and 1068 seales varies from 1093 in Fortugal and 1083 in Beginn and 1084 in Beginn and 1084 in Beginn and 1008 in Ireland. In drawing attention to this disparity the Chief Comuse Officer argued that the relatively high mortality amounts formales was sufficient to account for the difference stated. Then in summarising the causes of this relatively higher mortality be said. In Burope, boys and girls are equally well cased for Consensative as here we equally well cared for Consequently as hows are con stitutionally more delicate than girls by the time adolescence is reached a higher death rate has siready oblitterated the excess of males and produced a numerical equality between the two sexes. Later on in life the mortality amongst males remains relatively high, owing to the risks to which they are exposed in their daily avoca tions hard work, exposure in all weathers and accidents of various kinds combine to make their mean duration of life less than that of women who mean cursum on the less man that of women who are for the most part engaged in domestic duties or occupations of a lighter nature. Hence the proportion of formles steadily rises. In India, the conditions are altogether different. Sons are esemently longed for while daughters are not wanted. This feeling crusts everywhere, but it

varies greatly in intensity. It is strongest amongst communities such as the higher Rajput clans, where large sums have to be paid to obtain a husband of suitable status and the cost of the marriage ceremony is excessive and those like the Pathans who despise women and hold in de-rision the father of daughters. Sometimes the prejudice against daughters is so strong that abortion is resorted to when the midwife predicts the birth of a girl Formerly female infants were treguently killed as soon as they were born and even now they are very commonly neglected to a greater over less extent. The advantage which nature gives to girls is thus neutralised by the To make matters worse, they are given in mar-riage at a very early age, and cohabitation begins long before they are physically fit for it. To the evils of carly child bearing must be added unsulful midwifer; and the combined result an excessive mortality amount young mothers. In India simost every woman has to face these danders Lavly amongs the lower classes who form the bulk of the population, the women often have to work as hard as, and somethines harder than the men, and they are thus less invourably situated in respect of their occupations than their sisters in Purope" Tt I∎ but fair to say that this condusion has been challenged by many Indian writers who attri-bute far greater importance than the Chief Census Officer to the omusion of females at the enumeration

#### MARRIAGE.

Although recognised in some backward parts polyandry is now rare in India With orthodox Hindre marriage is a religious sacrament which cannot be revoked. The Mahomedans allow a men to divorce his wife without any special rea son, but he then become hable to pay her down The permission is seldom acted upon The Baddhists of Burma regard marriage merely as a sivil contract and either side can annul it The Hinda law places no restriction on the num ber of wives a man may have but most castes object to their members having more than one wife, except for special reasons. A Mahomedan may have four wives, but he also in practice is generally monogamous

Marriage Statistics.—In the population of ages and religious about half the males and one-third of the females are unmarried 46 per cent of the males and 4" of the females are married, and 5 and 17 per cent respectively are widowed A reference to the age statistics shows that the great majority of the unmarried of both sexes are very young children three-quarters of the bachelors being under 15 years of age while a nomewhat larger proportion of the spinsters are under 10 only one bachelor in 24 is over 30 and timas 10 cmy one cannets in he is over a war and only one spinster in 14 is over 10. At the higher ages practically no one is left tunmarried, except persons suffering from some infimity or distinguishment, beggam prosituties, concubines, religious devotes and mendicants and a few mean the state of the provinces of the province ses who contribute the 4 per cent of the males over 40 and the 1 per cent of the fymales over 30 who are not, and never have been, married

Marriage Universal.--This universality of marriage constitutes one of the most striking diff erences between the social practices of India and those of Western Europe It has often been explained on the ground that, with the Hindus marriage is a religious necessity. Every man must marry in order to heget a son who will per form his funeral rites and rescue his soul from hell In the case of a girl it is incumbent on the parents to give her in marriage before she reaches the age of puberty Failure to do so is punished with social estracism in this world and hell fire in the next. But it is not only with the Hindus that marriage is practically universal it is almost equally so with the Mahomedans, Animists and Buddhists.

Early-Marriage — Another striking feature of the Indian statistics as compared with those of of trie indian seasons as compared what score in western Europe is the early age at which marriage takes place According to M Bund barg's table showing the average distribution by age and civil condition of the people of Western Europe according to the censuses taken about sees parameter in a in over 10 at the figures. Surpope according to the cannices taken about persons suffering from some infirmity or disguisteent, beggar providintes, committee, or disguisteent, beggar providintes, committee, or disguisteent, beggar providintes, committee, or disguisteent, beggar providintes, committee in 142. In India on the other hand, 10 per out of the trust, and 25 per cent of the make, and 25 per cent of the make population below that age are marked, alone are permitted to them by the rules of thest.

The number of make below these aged 5 to 10, 4 per cent are marked and of those aged 10 to 16 13 per cent At 15 20° the proportion class to 32, and 20-30 to 69 per cent Of the females under 5 one in 72 is married, of those between 6 and 10 one in ten, between 10 and 15 more than two in five, and between 1a and 20 four in ave In the whole of In 11a there are 2; million wives under 10 and 9 million under 15 years of age. The Hindu law books incule te marriage at a very early age while many of the aboriginal tribes do not give their girls in wedlock until after they have attained public ty.

widowhood—It is only when we come to a consideration of the widowed that we find a state of things perularity Indian and one that seems to be derived from the preserritions of the Hindu law-givers. The proportion of widowers (5 per cent of the total male population) does not differ greatly from that in other countries, but that of the widows is extraordinarily large, being no less than 17 per cent of the total number of females against only 0 per cent in Western Europe. When we consider their distribution by age the difference becomes more still striking for while in western Europe only 7 per cent of the widows are less than 40 years old in India 28 per cent are be low this age, and 1 8 per cent (the actual number exceeds a thind of a million) are under 15 an age at which in Europe no one is even married

The large number of widows in India is due partly to the early age at which girls are given in marriage, and partly to the disparity which often exists between the ages of hisband and wife but most of all to the prejudice against the re-marriage of widows Many castes especially the higher ones forbid it shoughter and even where it is not absolutely prohibited it is often unipopular. Although widow marriage is permitted by their religion and the Prophet hunself married a widow the Mahomedans of India share the prejudice to some extent. How the remarriage of widows first came to be objected to it is impossible to say but it seems highly probable that the interdiction originated amongst the Aryan Hindus that it was confined at first to the higher castes and that it has apread from them downwards.

Infant Marriage—It is difficult to draw from the statistics any definite conclusion as to whether infant marriage is becoming more or less common but so lar as they so they pount to a sight diminution or the practice. The figures for 1901 were also ormal owing to the inmines of 1897 and 1900 and it is safe to take the year 1891 as the basis of comparison. There are now 1891 Hinding dris per mille who are married at the age of 0.5 as compared with only 16 at that time, but at the age 5.10 the proposion has fallen from 146 to 132 and at 10.15 from 542 to 488 Amongst Mainmedann the proposition at the fart mentioned age-peried has fallen from 7 to 5 at the second from 83 to 65 and at the third from 474 to 398

The practice has been denounced by many social reformers, since Mr Maisbari opened the campaign a quarter of a century ago and the Social Conference which holds its meetings an nually in connection with the Vational Congress has made the abolition of child marriage one of the leading planks in its platform. It is as we have seen, strongly discouraged by the Brahmos in Bengal and the Arysain Northern India. The more enlightened members of the higher castes who do not allow widows to re-marry are begin ming to realise how wrong it is to expose their daughters to the risk of lifelong widowhood, and a feeling against infant marriage is thus springing my amongst them

In two Native states action has be n taken. In hysore an act has been passed forbidding the marriage of garls under eight altogether and that of girls under fourteen, with men over fitty years of age. The object of the latter provision is to prevent those unequal marriages of eiderly widowers with very young stris which are popularly believed to be so disastrous to the health of the latter and which in any case must result in a large proportion of them leading a long life of endored widowhood. The Gackwar of Baroda, the ploneer of so much advanced fordisation has gone further. He passed for his State in 1904 in the face of a good dest of popular opportion an inhant Marriage Prevention Act which forbids absolutely the marriage of all garls below the age of twelve and of boys below the age of twelve and of boys below the age of streen only if the parents first obtain the consent of a cribunal consuming of the local Sub-Judge and three assessors of the petitioner's caste. Consent is not supposed to be given except on special grounds which are specified in the Act

Widow re-marriage —The prohibition of widow marriage is a badge of respectability Castes do not allow it rank higher on that account in social estimation. There is a strong tendency amongst the lower Hindu castes to prohibit or at least to discountenance the marriage or widows at the other end of the social structure there is a movement in the opposite direction. Many social reformers have invelyined against the condemnation of virgin widows to perpetual widowhood and have point ed out that the custom is a modern innovation which was unknown in veito times. In many provinces recombly there have been cases in which who have widows have been given in marriage as a real time not only amongst Brahmoos and Aryas who naturally lead the way but also amongst orthodow have been given in marriage as or the time not only amongst Brahmoos and of the Bombay Prediction of the Sumbay Prediction of the Sumbay Prediction of the Sumbay Prediction of the Cutted Provinces considerably more than a hundred widows have been re-married in the last ten years. The actual results no doubt are small so for but the first step has been taken and the most violent of the opposition has perhaps been overcome.

#### **EDUCATION**

The general education policy of the Government of India, and its results, are discussed in a special article Education (a, \*). But we may conveniently here indicate some of the education tendencies revealed in the consus returns of the total population of India, only 39 persons.

per mille are literate in the sense of being able to write a letter to a friend and to read his reply The number who can decipier the pages of a printed book with more or less difficulty is no doubt much larger. Throughout India there are many Hindus who though unable to write can drone out at least the more familiar parts of the Mahabhatsta or Ramavana to their neighbours who feel that it is meritorious to dieter to the recited of the sacred texts, even though they and possibly the reader also may not always fully indentiand the meaning similarity there are many Mahomedans especially in Northern India who can read the Koran though they cannot waite a word. Of this minor form of Herrary the cansus takes no count. The number of persons who are literate in the sense in which the term was used at the present census is divided very unequally between the two seares of the total male population. 106 per mille are able to read and write, and of the female only 10. In other words there is only one literate female to every eleven males. If we leave out of account children under 15 years of age the number of literate males per mille is 143 and that of literate finales?

Education by Provinces — Thanks to the free instruction unparted in the monast rise and the absence of the pardah system which hampers the education of females in other parts of India Burma easily holds the first place in respect of literacy In the whole population 222 persons per mills are literate and the proportion rises to 314 amongst persons over 15 years of age. In every thousand persons of each sex 3 6 males and 61 females are able to read and write Of the othir main British provinces Bengal and Madray come next with 77 and 75 ht water persons per mills respectively. Bombey follows closely on their Then after a long interval, come Assam heals. At the bot Bihar and Orissa and the Punjab tom of the list are the United Provinces and the Central Provinces and Burar with 34 and 33 literate persons per mile respectively. Differ ences similar to those noticed above sometimes have their counterpart within provincial bounds. new their counterpart within provincial bouncia fires. Thes in Bihar and Orisas the Orissa natu-ral division has 64 literate purson per mile-and the Chota Nagpur plateau only 38. In the Central Provinces and Berst the proportion reages from only 8 per mile in the Chota Nagpur States to 64 in the Verbudda Valley

Native States.—Education is more with ightfused in British provinces than in the Native States, which, taken as a whole have only 78 makes and 8 females per nille who are literate as compared with 118 and 11 in British territory. The three Native States of 1 ochin, Tavancore and Baroda however take nulk above all British provinces except Burms while in respect of Kungle education Cochin divides with Burms the honours of first place. The Kashmit State where only 21 persons per mille can read and write is in this respect the most backward part of India.

By Religion.—Of the different religious communities excluding the Brahmos and Aryas whose numbers are maignificant the Parsis easily bear the paim in respect of education. Of their total number 711 per mills are hterate and the proportion rises to 831 if persons under 15 years of age are left out of account. Of the males mearly four fifths are literate, and of the temales mearly four fifths are literate, and of the temales mearly four fifths are literate, and of the remales mearly to-thards. Amongst those over 15 years of age only 8 per cent of the males and 25 per cent of the females are unable to read and write. The Jains, who are mostly traders, come next, but they have only two literate persons to every five amongst the Parsis. Half the

males are able to read and write, but only 4 per cant of the females. It is noticeable however that whereas the proportion of literate males is only slightly greater than it was at the com-nemement of the decade that of literate females has doubled. The Buddhists follow clearly on the Jains with one person in four ably to read and write. Here also we see the phenomenon of a practi-culty inchanged proportion of literate males (40 per cent I coupled with a large increase in cent of the females. It is noticeable however that of liferate females, which is now 6 per cent compared with 4 per cent in 1901. The Christians (22 per cent literate) are almost on a part with the Buddhists, but in their case the in equality between the position of the two sexes is much smaller the proportion of literate females being nearly half that of males. In order to ascertain how far the high position of Christians is due to the inclusion of Europeans and Anglo Indians the figures for Indian Christians have been worked out separately The result is somewhat surpri dag for although the Indian converte to Christianity are recruited mainly from the aboriginal tribes and the lowest Hindu castes, who are almost wholly illiterate they have in proportion to their numbers, three times as many literate persons as the Handus and more than four times as many as the Mahomedans One Indian Christian in six is able to read and write for males the proportion is one in four and for females one in ten. The influence of Christianity on education is stri kingly illustrated by the figures for the province of Bilar and Onsea where the proportion of Indian Christians who are literate is "d per nulle compared with only p per mille amongst their animistic congeners. It has to be remembered, moreover, that many of the Indian Christians had already passed the school going ag at the time of their conversion the proportion who are able to read and write must te far bigher among t those who were brought up as Christians

The Sikhs come next in order of merit with one it rate person in every fifteen for males the ratio is one in ten and for females one in seventy. Here again while the proportion for males show so not a slight improvement that for females has doubled during the decade. The findus have almost as large a proportion of literate males per mills (101) as the kikhs, but lewer literate females (8). The Maximmedian with only 69 and 4 per mills respectively stand at the bottom of the list except for the Animistic tribers of whom only 11 males and 1 female in a thousand of each sex are able to read and write. The low position of the Mahomedian is due largely to the fact that they are found chiefly in the north west of India, where all classes are backward in respect of education and in Eastern Bengal where they consist mainly of local converts from a depressed class. In the United Provinces Madras and the Central Provinces and Berst they stand above to on an equality with the Hindus and the same is the case in Bombay excluding Slind. In Slind the Mahomedian population is exceptionally illiterate, but in the readers, and education is much more widely diffused amongst them than amongst them than amongst them than amongst them that cannon are general average for all castes, high and low. It will be seen further on that some of the higher Hindu castes.

are better educated than the Buddhists while others are even less so than the Animists.

Increase of Literacy—The total number of literate persons has risen during the decade from 15 7 to 18 6 millions or by 18 per cent. The number of literate makes has increased by 15 and that of literate lemals: by 61 per cent. The proportion who are literate per thousand malos has risen from 98 to 108 and the corresponding proportion for females from " to 10 If persons under 15 years of age be excluded the proportions are 188 and 149 for male and 6 and 18 for females. The great improvement in the proportion of literate females is most encouraging. It is true that too much atress should not be laid on this when the actual number is still so small but on the other hand it must be remembered that the rate of increase was equally great in the provious decal so that it has now been continuous for twenty years. The total number of females over 15 years of age who can read and write is now a million and a quarter compared with less than half a million twenty years ago

Progress —Before leaving these statistics of schools and scholars we may glance brirdy at the progress which they show is being made. The total number of scholars in all kinds of edu cational institutions in 1891 was only 3 7 millions. In 1901 it had risen to 4 4, and in 1911 to 6 3 millions. 17 per cent, of the population of school-going ago were at school in 1912 as

compared with 14.8 per cent. in 1907 Between 1891 and 1911 the number of students in secondary schools and Arts Colleges has doubled, and the number in primary schools has in-reased by 67 per cent., the proportion ranging from 39 per cent in Bondary to 204 per cent in the United Provinces. Excluding Madrax, where a school final examination has recently taken the place of the Matriculation or Entrance examination of the University the number of persons passing that examination has risen from 4 070 in 1891 to 19 512 in 1911 Including Madrax in the number who passed the Intermediate examination in Arts or Science has risen during the same period from 2 0.5 to 5 141 and that of those who obtained a degree in Arts, Science, Medicine or Law from 1 437 to 5 373 The general conclusion appears to be that while the gueral rate of progress is far greater than would appear from a comparison of the census returns of 1801 and 1911 It is nost marked in r spect of secondary education

There was a continuous tall both in the num ber and the proportion of persons afflicted from 1881 to 1991 and this has now been followed by a move in the other direction. Though the proportion is smaller the number of the insane and the deaf mutes is now about the same as it was thirty years and The number of lepers and blind however is less by about a sixth than it then was.

#### Infirmities.

The total number of persons suffering from each infirmity at each of the last four censuses is shown in the following table -

	Number afflicted			
Influmity	1911	1901	1891	1881
Insane	91 006	66 205	74 279	81 132
Deaf mutes	199 891	23 153 168	27 196 361	<b>35</b> 197 216
Rind	443 653	354 104	7 <b>5</b> 458 963	ა26 748
Lepers	142	97 340	167 128 244	229 134 968
Milms	35	33	46	57
Total	833 444 <b>28</b> 7	670 817 <b>229</b>	858 252 316	937 063 <b>407</b>

Note -The figures in heavier type represent the proportion per 100 000 of the population

Insanity —In respect of the prevalence of basanty India compares very favourably with Ruropean ountries. According to the latest returns, the proportion of persons thus smitched in Rugiand and Wales is 854 per lundred thoward of the population or fourteen times the proportion in India. This may be du partly to the last that the English statistics include the weak minded as well as those who are actively insane and to the greater completeness of the return in a country where the majority of the mentally afflicted are confined in anyloms, but the main reason no doubt is to be found in the compass tively tranquil life of the native of India. It is well known that insanity increases with the spread of civilsation, owing to the greater

wear and tear of nerve tissues involved in the struggle for existence

The total number of Insane persons exceeds by 9 per cent to that returne 1 in 1891 but their protoction per hundred thousand of the population has fallen from 2: to 20. The decline is fairly general the etide! exceptions being the United Provinces, the North West Proutier Province and four Vatite States in the penisular area. In the United Provinces the number of the Insane per hundred thousand of the population has risen from 12 to 18. No satisfactory explanation of this large increase is forthioming.

this large increase is forthcoming.

Deaf Mates.—By deaf-mutism is meant the congenital want of the sense of hearing which, in the absence of special schools, such as are only

just beginning to appear in India, necessarily prevents the general from learning to talk. Clear interactions were given to the enumerators to enter only persons who were congenitally afflicted souse few, perhaps, may have be an induced in the return who had lost the power of speech or hear log atter birth, but the total number of such militation is now very small. In India as a whole 74 wastes and 55 females per hundred thousand are deaf and dumb from birth. These proportions are such the same as those obtaining in European countries.

Bindraes.—In India as a whole fourteen persons in every ten thousand of the population are blind, as compared with from eight to nine in most European countries and in the United fisters of America. It is a matter of common observation that bindness is ordinarily far more common in tropical countries than in those with a temperate climate. It is however less common in India than in parts of Eastern Europe in Russia, for instance, nineteen persons in very ten thousand are blind

Lepera.—In limits as a whole 51 males and 18 females per hundred thousand persons of each sex are lepers. Of the different provinces, Asiam suffers most then Burne, and then in order Rihar and Orisea, the Central Provinces and Berar Madras, Bengal Bombay the United Provinces, the Punjab and the North West Frontier Province in the two last men tioned provinces there are only 17 male and 8 female lepers per hundred thousand of each sex The occurrence of leprosy is very local and its provinces varies enormously within provincial boundaries.

The number of lepen has failen since 1801 from price 100 thousand a drop of more than 13 per cent. When it is remembered that the number of persons suffering from the other the \*s infirmatics taken together has remained aimost at 800 to 100

the disease. It is possible that this is partly the result of the improved majorial condition of the lower castes, amongst whom leprosy is most common, and of a higher standard of cleanliness. The greater efforts which have been made in recent years to house the lepers in saviums may also have helped to prevent the disease from agreeding. The total number of asytums in India is row? It and they contain some five thousand immates or about 4.7 per cent of the total number of lepers. This may not seem much but it has to be remembered that the movement is still in its infancy and that progress has been very rapid in recent years. Complete statistics for 1901 are not readily available but it is known that in the two provinces of Ben gai and Bihar and Orissa, the number of lepers may lums was then in a solution of asytums in these unfortunate persons asylums for these unfortunate, persons also the first the cast of the first lept from Governent its latest report shows that there are \$53-lepers in the forty asylums maintained by the Society

The belief is growing that leprosy is communicated from one human being to another by some insect and two worth African doctors have recently published papers implicating the bed bug (search) to this theory be correct it is obvious that the secregation of lepers in asylume must reduce the number of food of the disease, and to that extent prevent it from spreading It is worthy of note that in many of the districts where the disease was most prevalent in 1891 there has since been a remarkable im provement. Thanks which in 1891 had 44 lepers in every ten thousand of its population now has only 15 in Birbhorn the corresponding propertion has fallen from 35 to 16 in Bankurs from 26 to 23 in Sunis 29 to 18 in Debra Dun from 20 to 11 in Gardwai from 17 to 10 in Burdwai from 22 to 14 and in North Arskan from 28 to 20

#### OCCUPATIONS

Nowhere are the many points of difference in the local conditions of India as compared with those of western countries more marked than in respect of the functional distribution of the peopl in England according to the returns for 1901 of every hundred actual workers, 88 are engaged in Industrial pursuits, 14 in domestic service, 13 in trade and only 8 in agriculturer where and agriculture and only 28 per cent in all other cocupations combined. The preparation and supply of material substances actived as means of livelineed to 19 per cent of the population (actual workers of whom 12 per cent are engaged in Industries, 2 in transport and 6 in trade. The extraction of minerals supports only 2 persons per mille, the civil and mill ary services support 14 the professions and liberal arts 15 and domestic service 18, persons per mille. The difference is due to the extraordinary expansion of trade and industry which has taken place in Western Europe during the last century in consequence of the discovery of the steam right, and to the great improvement in means of wanaport and the use of machanical power in factories of all kinds which have against the profession approved in the Germany starty years ago, the agricultural papelasiten was

very little less than it is at the present time in India Thore are as we shall see further on indications that it the latter country also great changes are impending and it is not unlikely that as time goes on, the functional distribution of the people will become less dissimilar from that are related to Exercise.

that now existing in Europe

The village,—Until the recent introduction of western commodities such as machine-made cloth, kercaine oil, umbrelias and the like each village was provided with a complete equipment of artisans and menisis, and was thus almost wholly self-supporting and independent. Its chamars skinned the dead cattle cured their hides and made the villagers sandals and thougs. Local carpenters made their ploughs, local carpenters have, local potters their utentils for cooking and carrying water and local weavers their cotton clothing. Each village had its own of preserve its own washer men, and its own barbers and scavengers, and its own barbers and scavengers, where this system was fully developed, the duties and returnmention of each group of artisticity prolibited a man from entering intestricity  with another of the same caste.

all had their own definite circle within which |
they worked, and they received a regular yearly
payment for their services, which often took
the form of a prescriptive share of the harvest,
apportioned to them when the crop had been
reasped and prought to the threshing floor

Village sufficiency declining.—Even in India proper the village is no longer the a if contained industrial unit which it formerly was and many disintegrating influences are at work to break down the solidarity of village life The rising spirit of individualism, which is the result of modern education and western influ ences is impelling the classes who perform the humbler functions in the economy of village life to aspire to higher and more dignified pursuit There is also a tendency to replace the prescrip tive yearly remuneration by payment for actual work done. In many parts for instance the village Charnar is no longer allowed the blues of dead cattle as his perquisite but receives instead s payment for removing the cattle and for skinning them and the hides are then sold to a dealer by the owner of the animal Improved means of communication have greatly stimulatod migration and the consequent disruption of the village community and by acilitating and lowering the rost of transport of commo dities, have created a tendency for industries to become localised. The extensive importation of cheap European pieces, oods and utenalls and the establishment in India Itself or numerous factories of the western type have more or less destroyed many village industries. The high prices of agricultural product have also led many village artisans. It abandon their heredly cary craft in fa un of agriculture to which this diantegration of the old village organisation is proceeding varies considerably in different parts. The change is most notice able in the more advanced provinces whereas in comparatively backward tracts, like (entral India and Rejpntana, the old organisation expenses apport inter remains almost intact

Agriculture,—India is pre-eminently an agricultural country Of its total population 72 per cent are engaged in pasture and agriculture, ra. 69 per cent in ordinary cultivation and 3 per cent in market gardening the growing of special products forestry and the raising of farm stock and small animals. The 217 million persons supported by ordinary cultivation comprise nearly 8 million landlords 16 million cultivators of their own or rented land over 41 million farm servants and field labourers and less than a million estate agents and managers and their employers.

On the average in the whole of India, every hundred cultivators employ 25 labourers but the number varies in the main provinces from 2 in Assam 10 in the Punjab 12 in Bengul and 16 in the United Provinces to 27 in Burns 33 in Bihar and Oriesa 40 in Madras 41 in Bombay and 59 in the Central Provinces and Berar These local variations appear to be independent alike of the fertility of the soil and of the density of population. The conclusion seems to be that the differences are due to social, rather than conomic, conditions, and that those provinces have most field labourers which contain the largest proportion of the depressed castes who are hereditary appeario seris.

Of the two million persons supported by the growing of special products rather more than ball were returned in tea, coase disclosured in the coase of the coase of the plantations and the remainder in fruit vegetarle, betel vine, arecaust etc. Of those in the former group nearly nine tenths were enumerated in the tea-gardons of Amam (675 000) and Bengal (248,000) and most of the rounsinder in the coase teased of the rid persons per mille who were classed of the rid persons per mille who were classed

Of the 16 persons per mille who were classed under Ralaing of farm stock nearly four fitted were herdsmen shepherds, and goatherds, rather more than one-seventh were tattle and buffalo-breders and keepers and one-slevanth

sheep goat and ply breeders.

Fishing and Hunting—In the whole of India about 2 million persons or 6 per million subsets by fishing and hunting. Of fittee, all but a small tratten are fisherm in About half the t tal number are found in the two provinces of Bengal (644 000) and Madras (313,000). The number who live by this occupation is exceptionally small in the United Provinces (38 000) and Punjab (10 000). The Punjab Superintendent says that owing to the destruction of immature fish and fry and the obstruction of infracture fish and fry and the obstruction of infracture fish and fry and the obstruction of the free passage of fish to their spewning grounds the five thousand odd miles of large rivers and major canals in his Province probably produce less food than an equal volume of water in any other part of the worst. The sea fisherics of India though now known to be very valuable, are at present but little exploited

Mines.—In the whole of India only 580 000 persons or 17 in every ten thousand are supported by the extraction of indirersis. Cost indica and petroleum wells account for about half the total number (27.600). The cost fleids of Shar and Orless support 127.000 persons and those of Bengal 118 000. In the Manthum district which contains the Jherria, and part of the Raniganj coal field, 111 000 persons or 7 per cent of the Inhabitants are supported by work in the collectes. Though the Raniganj coal field was discovered as far back as 1774 many years elepsed before much us was made of the discovery. In 1840 the total quantity of coal sent to Calcutta was only 38 000 tons. It cose to 220 000 tons in 1858 and to six million tons in 1901. Since then the growth has been very rapid. The output in 1911 from the coal mines of Bengal and Bihar and Orissa exceeded eleven million tons. In the same year the total yield for all India was twelve million tons. Were exported and four million were used by the India and the summand the summand of the United King dom which amounted in 1911 to 272 million tons. Most of the persons employed in the mines of Bengal and Bihar and Orissa are abordinals or quasi-shortinal shout half are Bauris and Santais, and many of the remainder should be the budya. Chamar or Mochi Kors, Rajway Dosadh and Musshar castes. The great majority are recruited locally. The coal mines of Hydersbad, Assam, the Central Provinces and Berar and the Punjab support between them only about 27 000 persons.

Metals —Of the 98,000 persons supported by mining for metals, many than half were returned in the Mysore State, and of these the great majority were employed in the gold mines of Kolar where for some years past the value of the gold produced has been about \$2,000 000 per annum The mines in the Central Provinces and Berar which support 21 000 persons are principally for the artraction of manganese. The mining of this ore was greatly fostered by the Japanese War within caused Russia to discontinue her exports of it for the time. There has since been a period of depression which seems now to have come to an end. Manganese is extracted elsewhere also s s in Mysore and Madras. In Burma the and lead are extracted as well as altered and wolfram in small quantities. Iron one is worked in various places but chiefly in Mayurbhanj which supplies the raw material for Mesers Tata and Company's ironworks at sarchi

Of the 75 000 persons supported by work in quarties and mines for non netallio minerals other than coal and sait, two fifths were counternated in Bomhay where the quarrying of stone and limestone is an important business chiefly in the neighbourhood of Bombay city. In Bihar and Oriesa and Madras mira mining is of some importance.

The extraction of salt and saltpetre supports 78 000 person. Nearly a third of the total number are found in Bihar and Oriasa where the Nunlyas are still largely employed in digning out and refining saftpetre. This industry is carried on also in the Funjab Rock salt is mined in the same province and in Rasputens.

The total number of persons employed in the extraction of minerals has risen during the docade from 236 to 31" thousand Thousand to the control of the control of the most noticeable increase is in 1901. The bulk of the increase has necurred in Bengal and Bihar and Orissa, but it is to be noted that Hydraphad and the Central Provinces and Berar which now contribute about 12,000 persons to this group gave practically none to vears previously. Miners for metals are at times as numerous as they were in 1901.

Industries—Of the 35 3 million persons dependent on industrial occupations, nearly one-fourth or 20 per cent of the total populations, are supported by textile industries of these, the most important from a numerical point of view are industries connected with cotton. The number of persons supported by cotton spinning string and weaving is close on 6 millions, and another bail million are employed in ginning cleaning and pressing the raw material. The proportion of the population supported by cotton spinning sixing and weaving is 37 per mille in the Punjab 29 in Bombey and Rejipitan 27 in Madras, 22 in the Central Provinces and Berrara and 18 in the United Provinces. In Burma, Bihar and Orisas, Bengal and Assam it is much smaller ranging only from 8 to 11 per mille Nearly two-ditties of a million persons are supported by rope twine and string making and more than a third of a million by jute spin ring, pressing and weaving, and dyding and printing, etc. each of which supporte frees a quarter to a third of a million persons.

fore that so far as India is concerned, in spite of the growing number of cotton railis in the Bombay Presidency and elsewhere, the hand industry still to a great extent, hold its own. Only 13 000 persons are employed in all x spin ning and weaving factories 7 000 in woollen factories including those for the making of carpets and even smaller numbers in other factories of this class. Some of these textile industries an every local Those connected with jute are practically confined to Bengal, in which province mine-tenths of the persons supported by them were enumerated. More than half the persons are commended and the persons are considered to a converting and on working in other fibres chiefly colf and palmyra fibre were counterated in Madras and its Native States and a quarker of those supported by wood industries in Hyderabed. Half the dik spinners and weavers are found in two provinces Bengal and Madras. The dyeing blesching and printing of textiles and law crape and similar industries are almost unknown in Assam Bengal Burma and the Central Provinces and Bergar.

Growth of Industry—As compared with 1901 there has been a deurease of 61 per cent. in the number of persons supported by tertile industries This is dur mainly to the almost complete exclusion of cotton spinning by has Weaving by hand has also suffered severely from the competition of geods made by machinery both in Europe and in this country. There has been a large lucrease in the number of Indian cotton utilis but as the output per head in factories is far greater than that from hand looms the addition of a given number of factory hands involves the displacement of a far larger number of hand workers,

Hides—As compared with 1901 a large decline in the number returned as general work can in hides is partly compensated for by an increase in shore book and sandal makers. In the two heads taken together there has been a drop of about 6 per cent. During the same period the number of hide dealers has more than doubled. Owing to the growing demand for hides in Europe and America and the resulting high prices the export trade to this as been greatly stimulated. The local cobbler, on the other hand having to pay more for his raw material and feeling the increasing competition of machine-made goods has been tempted to abound m his hereditary craft for some other neums of livelihood, and as agriculture or work in factories of various kinds.

Woodworkers —Wood cutting and working and basket making support 2 5 and 1 3 million persons, respectively or 8 8 million in all The number of factories devoted to these industries is still inconsiderable. Saw mills and timber yards tach employ some 12,000 persons and carpentry works about 5 000 There is only one cane factory with 46 employes.

Metal workers —The workers in metals are only about half as numerous as those in wood and cane. About three-quarters of the persons in this order are general workers in iron and one-seventh are workers in brass copper and bell metal

The total number of persons dependent on metal industries shows a dectine of 6 6 per cent. as compared with 1901.

as compared with 1901.

Earthenware —The manufacture of giaes,
bricks, and carthonware supports in all 22 mild

on persons. Seven-eights of these are the ordin ary village potters who make the various earthen ware utensils for cooking and storing water which are required by the poorer classes as well as titles, rings for wells and the like. In most parts of India the potter like the carpenter oil presses blacksmith and cobbler is found in practically every village

Chemicals —In a country like India, whose to be expected that a large number of persons should be engaged in industries connected with chemical products. The total number returned as apported by these industries exceeds a million but it shripks to less than 100 000 if we exclude mannfacture and retining of vegetable and mineral oils. The 1 1 million persons included in this group are almost entirely vill ge artisans who extruct old from mustard lingered etc grown by their fellow villagers

Food Industries —Of the 3.7 million persons supported by food industries the great majority follow occupations of a very primitive type Rice pounders and huskers and flour grinders. number 1 6 million, grain parchers etc. 0 6 million and toddy drawers about the same There are 352,000 butchers 281,000 sweetment makers etr and 97 000 bakers and brount makers. The other five heads of the scheme contain between them only 227 000 persons.

The principal factories in connection with fool ALL principal in sortes in conference with 1004 industries are flour and rice rails while employ 42,000 persons sugar factories 8 000 opium, gapla and tobacco factories 7 000 and breweries 5 000

Dress -In all 7 8 million persons are sup ported by industries of dross and the tollet Of these 1 9 millions are grouped under the head tailors, milliners dressmakers etc. and 2.1 mil hion under each of the heads (a) shoe boot and anial makers (b) washermen, chaners and dyers and (c) barbers, hair-dressers and wig

Transport —Transport supports about five million persons, or 16 per million if the population, we transport by water one million, transport by read 2 8 million, transport by rail one million, and the post telegraph and telephone services 0 2 million Transport by water about three-fifths are owners of country boats and their boatmen nearly one-sixth are employed on inland steamers and occan going vessels of all kinds, one-sixth are engaged in the construction and maintenance of canals and one twentleth in the management and upkeep of harbours. Trans-port by road includes one million carters and cart-owners more than half a million porters and messengers and considerably less than that num ber of owners and drivers of pack animals owners and drivers of pack animals Palki owners and bearers number 202,000 and persons engaged on road construction and maintenance 563 000

Trade —The number of persons dependent on trade for their livelihood is 1° 8 millions or per cent of the population. Of these more than half are supported by trade in food stuffs including 2 9 million grocers and sellers of vege table oil, sait and other condiments who are for the most part the petty village shop-keepers commonly known as salt and oil sellers 2 2 million grain and pulse dealers 1 6 million betel leaf, vogetables and fruit sellers and nearly a million fish vendors. Trade a textiles is the

next most important item, supporting 4 per mille of the population. In connection with these figures, it is necessary to draw attention to the great difference which exists between the econo mic conditions of India and those of Europe In Europe the seller is almost invariably a middleman whereas in India he is usually the maker or the article and is thus classified under the industrial and not the commercial head

Professions -The public administration and Professions—The public administration and the liberal arts support 100 million persons or 35 per mille namely public tores 24 million public administration 2.7 million the professions and iliberal arts 5 million and persons of independent m as about half a million. The head Public force in independent in a million in the head and in the police (16 million) the Navy (less than 5 000) and the Police (16 million). Indicate managed the second of the police (16 million). Indicate managed the second of the police (16 million). million) India has practically no navy and her army is exceptionally small as compared with those of European countries. The number of persons actually employed in it is onn 334 000 or 1 per nille of the population as compared with 4 per mille in England and 10 in Germany The figures for Police include village watchmen and their families. The real number in this group is greater than that shown in the ocnain tables many of these village officials have other means of susbestence and the latter wire sometimes shown as their principal occupation. Under the head Public administration are classed only thuse persons who are directly engaged in the lyselu tive and Judicial administration and thir is tablishmenta, whether employed directly under Government or under a municipality or other local body Employees of Government and local bodi who have a specific occupation of their own such as doctors printers school masters, land surveyors etc. are shown under the apecial heads provided for the se occupations. Of the 5 8 million persons supported by the professions and liberal arts Religion accounts for rather more than half Letters a d the arts and sciences for more than a sixth Instruction and Medicine for one-eighth and Law for our-clunteenth. one-eighth and Law for our-righteenth. The might head Religion contains 10 million priests ministers et. U7 million rolligious mendicants 0.4 million pligrim con invois circumcists and petsons engaged in temples burial or burn-ing ground service, and 0.00 million catrobists and other persons in church and un-viou service. Of Law more than half are lawyers law agents and mulhtlars and the remainder lawyers clerks and nutrition writers. More than two thirds of the persons under the Medical head are medical practitioners of various kinds, including dentists. the remainder are midwives, var-inators com-pounders nurses et. The real number of per-sons who act as midwives must exceed consider ably that shown in the return. This service is usually performed by the wife of the village seavement or other person of low casts and he must often have been returned under her husband a occupation. Nearly three-lourths of the persons massed under Letters and the arts and sciences are found in Music composers and masters, players on musical instruments, an massers, payers on missess instruments, an gers actors and damers. The bulk of these are village drummers, whose services are invariably requisitioned on the occasion of marriages and religious festivais.

Factories.—There are in the whole of India 7 113 factories employing 21 million persons, or 7 per mille of the population. Of these per

sons, 810,000, or two-fifths of the total number 2003, S10,000, or two-fifths of the total number are supplyed in the growing of special products, 558,000 in textile industries, 222,000 in mines, 71,000 in metal industries, 49 000 in glass and cartices were undustries, the same number in in dustries, on the same number in in dustries of inverse of the special products and 43,000 in industries of inverse of the special products are transferred to the special products and 43,000 in industries of inverse of the special products, tea (703 000 employers) is by far the most important. The number of tea gardens lawet under most far deally the of contamination. is not much more than double that of coffee plan tations but twelve times as many persons are employed on them. The coffre plantations are four times as numerous as indigo concerns and four times as numerous as indigo concerns and employ twice as many labourers. Of the labourers on the gardens, 70 per cent are returned by Assam and 27 per cent by Bengal Madras, Mysor and Coorg contain between them practically all the coffee plantations, and Biliar and Orisas all the indigo inctories. Of the persons working in mines 143,000 or 64 per cent are found in colleters eight-minits of them being in the two provinces of Biliar and Orisas and Regural The number of corporar avagand in coll Bengal The number of persons engaged in gold number is about one fifth of the number in the coal mines nine tenths of them were returned from Mysore Of the 558,000 workers, in textile in dustries, cotton mills contribute 808 000 and jute, hemp etc 222,000 About two thirds or the persons amployed in cotton mills are found in the Bomi ay Presidency from 8 to 9 per cent. in the Central Provinces and Berar and Madras, in the Central Provinces and Berar and Madria, and about half this proportion in the united Provinces and Bengal Jute mills are a monopoly of Bengal Of the undernies connected with transport railway workshops are by far the most important and allord employment to 98,000 persons or 70 per ent. of the total number of persons engaged in these industries about one lourth of them are found in Bengal and one-sixth in Bombay of the factories connected with food industries the most prominent are not and four milk. These employ 42,000 persons, of whom nearly thre fourths are engaged in the noe mills of Rangoon and other place in Burms

Indians and Europeans —The proportion of Indians to Europeans varies considerably in different classes of factories —The great major ity of the larger concerns are financed by Euro pean capital and in such tases management or direction is generally Furop an and the Indians shown under this head are engaged for the most part on supervision and derical work.

In assam where 549 ter gardins are owned by Europeans and 60 by Indians there are 526 European and 73 Indian managers. In the oelies plantations of Madras and Mysore.

Bombey where Indians own 110 of the cotton spinning and weaving mills and share 25 with Europeans and the latter own exclusively only 12. all but 48 of the managers are Indians. Some times the proportion of Europeans employed in supervision etc. vames with the character of the work In the gold mines where the planning and control of the deep underground workings require a high degree of skill, Europeans outnumber In diams in the ratio of nearly 4 to 1 whereas in the collierus Indiana are twelve times as numerous as Europeans

Anglo-Indians. - Anglo-Indian is used at the census as the designation of the mixed recedes and descended usually from European fathers and Indian mother which was formerly known as Lurasian The total number of persons returned under this head excluding Ferings is now 100 451 or 15 per cent more than in 1901 Anglo Indians are most numerous in Madras (26 000) and Bengal (20 000) In the United Provinces Bombay and Burms the number ranges from 8 to 11 thousand and in Bihar and Orises tha o I trial Provinces and Beray and the Punjab it is about \$600. In the States and Agendes Anglo Indians aggregate only 14000 more than half being found in Vivour and Hyderabad The increase in their number as compared with 1001 may be due partly to some Anglo Indians baying returned themselves under their new d signation who would have claimed to be Europeans if Eurasian had been the only diternative and it is also perhaps due in part to a growing tondency amongst certain classes of Indian Christians to pass themselves off as Angio Indians The Punjab Superintendent accounts in this way for the greater part of the increase of 42 per cent in the number returned noreage of at per cent in the number returned as Anglo Indians in his province. The proportional increase is also large in the United Provinces Bombay Burms the Contral Pro vinces and Herar and the Cochin State Although Madras still has the largest number of Anglo Indians the total is slightly less now than it was twenty years ago Possibly this is because more careful enumeration has reduced the number of Indian Christians who thus returned themselves. The number of Anglo Indian, in Burma is remarkably large in view of the comparatively short time that has elapsed arnoe it became a British possession and the strength of its European population. In this community there are 984 females per thousand males or slightly more than the corresponding proportions in the general population of India by Europeans and 60 by Indiana tater are \$1526 European and 73 Indian managers In the collect plantations of Madras and Mysore the same principle is apparent. The tute mills of Bengal are financed by European capital and Angloans the number of Presbyterians of Bengal are financed by European capital and Baptits and Methodists ranges from 2 to 21 the managers are all Europeans while in

# Prices and Wages

In the section on the trade of India (p 248) | while lineed fell 27 per cent , turmeric 17 bairs brief reference is made to the course of prices and wages. The subject was further analysed and wages. The supper was furnier manyers in the official volume on Prices and Wages in India published during the year. The salient features of this report are indicated in the

following extracts

Before analysing the rise of prices in 1918 it is convenient to summarise the general movement of prices for the last two decades. The general level of wholessly prices is now 40 per cent high er than they were two decades ago. In 1912 the er man they were two decades ago in 1912 the general average was 41 per cent higher than in the quinquennial 1890 94. If a smoothed aver age be taken say the quinquennial 1903-12 the rise was 37 per cent higher than during the quinquennial 1890 94. This rise has been egge getter marked since 1906. The integers to requinquential 1980 94 This rise has been espe-cially marked since 1905. The increase in price has been greatest in the following classes of staticles. Hides and skins lood grains build-ing materials and offseeds, all of which have risen 40 per cent or more above the level of the period 1890 94 It is not resting also to note period 1890 94 It is jut resting also to note that the rise has been greater in some areas than in others. If the average of 1905 to 1912 be taken the rise has been above 80 per cent. In the taken the rise has been above 80 per cent. In the following areas as compared with basi, period of 1890 94 Kurachi (48 per cent.) Bundelikhund (in the United Provinces) (41 per cent.) Sind (55 per cent.) the Punjab East (36 per cent.) Punjab West Including North West Frontier Provinces (38 per cent.) the United Provinces and Byrar (35 per cent.) Bangal (36 per cent.) Madras (45 per cent.) Deccan (36 per cent.) Chinda Nagpur (38 per cent.) and Guirart (31 per cent.) and Guirart (31 per cent.) and Guirart (31 per cent.) (33 per cent ) and Gujarat (31 per cent )

On the other hand the rise has been compara tively small in Assam which is practically free from famine The rise at the ports except Karachi has been less than in most of the upcountry areas but in comparing the ports with prices elsewhere it should be borne in mind that prices at the ports were generally higher than in other areas and that an equal rise in prices would result in a lower percentage of rise at the ports. The prices at the ports do not fluctuate within such wide limits as those in up country areas such as Bundelkhund. The disparity also be tween the prices in good and bad years in remarkable but with the linking up of markets by rallways the variations between district and district are now very much less than they were formerly

8 sugar raw 6 sugar refined 3 and sheep 8 per cent

Retail Advance.—There was also a general rise in the retail prices of food grains in India in 1913 as compared with 1912, the high est rise being in the prices of Arhar cal (10 per cent ) and the lowest in Ragi (blessine corooms) (2 per cent ) Bajra (Penna etum typhovicum) however shows a fall of 7 per cent and Jawar (and opogon sorghum) I per cent. The average fluctuation for all India in the pri es of food grains was a rise of 3 per cent over the price of 1912 There was no fractnation in the average price of maize and sait in India

benefit.--The conclusions show that the income of ware-carners has generally increased considerably faster than their cost of living which has resulted in a substantial improvement in the material condi-tion of agricultural and general labourers and artisans who form the majority of the wage earning class. Taking India as a whole the rise in real wags of general labourers has been greatest in the Punjab Lust Agra Provinces East and Bundlekhund Next to this class the rise in real wages in India as a whole has been greatest in the case of village artisans greatest in the case of village artisans. The rise has byn highest in the Punjah East Bundel khund Blimr and Aura Provinces North and West The third class in order of rise for all India is the sarkultural labourer. The rise in real wages for this class has been above 50 per cent, in the Punjab East Agra Province East and Untota Vagpur between 40 and 50 per cent in Agra Province North and West Punjab West Bundukhund Berar and Madras South Next in order of importance come firstly the artian order of importance come instry the arti-sans employed in urban areas other than large-cities, secondly general labourers in cities and thirdly the city artisas. In India as a whole the rise in real wages has been lowest for domes tic servants both in cities and other urban arcas and as a matter of fact in some circles there has been an actual fall in real wages that is the rise in nominal wages has not been so great as that in nominal wages has not need to sure to some m the cost of living. To sum up it may be said that in India unlike most other countries the rise of prices has been fully met by a rise in wayes in the case of skilled or unskilled labour ers not employed in industries or on railways and industrial or railway labourers have, in some Upward Trend.—The marked upward tendency in the prices of Indian products in the world markets continued in 1918 July the world markets continued in 1918 July the rose 15 per cent arhar dal 14 per cent give and maine 9 per cent each rice and gram 8 per cent, each bariey 5 per cent plough bullocks 5 per cent wheat 4 per cent in the increase in wages continued in the prices will in others the increase in wages bus maller than the increase in wages bus maller than the increase in wages continued in the prices will in others the increase in wages continued with the two prices of the increase in wages continued with the two prices of the increase in wages continued with the research in the prices will in others the increase in wages continued with the two prices will in others the increase in wages continued with the rice will in others the increase in wages continued with the rice will in others the increase in wages continued with the rice will in others the increase in wages continued with the rice will in others the increase in wages continued with the rice will in the increase in wages continued with the rice will in the increase in wages continued with the rice will in the increase in wages continued with the rice will in the price will in the price will in the increase in wages continued with the rice will in the price will be price will be price will be price will be price will in the price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price will be price win the price will be price will be price will be price will be pri parts of India, secured an increase in wages com-

#### WAGES IN 1913 AND 1914

The statistics of wages of skilled and un skilled labour paid in districts of British India of returns supplied by leading industries for 1913 are not now available as the half octon (Bombay), woollen (Cawnpore), into yearly returns of wages submitted by district (Bengal), paper (Bengal) rice (Bangoon), officers have been discontinued and a quin quential wage ceasus the first of which we found as shown below them there has been taken in 1911 12 was instituted in place of

3 per cent in January 1914 as compared with January 1913 ---

Bate for January 1914 expressed in index numbers (rate for January 1913 100)

ndustry-	
Cotton	109
Wool	109
Jute	102
Paper	100
Rico	91
Mining (1 oal)	01
Brewing	108
Conoral average	103

The greatest rise is a rise of 9 per cent each in the cotton industry in Bombay and in the woolkin milks in Upper India The insum cleancy of operatives in the cotton factories in Bombay has been a sarious hindrence to the

industry and is due to the great demand for unakilized labour elsewhere chiefly in the Public Works Department and at the Docks and also to such root factors over long periods as plague etc which arrest the natural growth of the population at a time of considerable industrial transition. The jute industry aboves a rise of 2 per cent. In the early part of the season labour was fairly qualful. In the beginning of the hot weather that jute mills started a five-day week and the exodus of labourers especially the weather that jute mills started a five-day week and the exodus of labourers portions was in consequence even larger than in previous years. The paper industry in Bengal records no change while the coal industry shows a fall of a per cent. There was no material change in tea gard in where labour conditions remained on the whole the same as in 2 even year in table below dives the rates for the pest three years for different class of wage-carners in the their industries.

## Average rates of wages paid in selected industries

[udustres	Гer	1012	1913	191±
	-	Кавр	Reat	Raap
(1) / ottou	Month	10 <del>1</del>	1 8 10	17 3 5
(J) Wool	1	16 9 0	10 9 7	17 14 9
(3) Paper		15 9 U	19 12 0	19 12 0
(4) Rica	1	JI 12 0	13 _ U	51 2 U
(n) Brewing	1	16 2 0	1016	15 14 11
(6) Juto	Wee k	3 6 0	3 <b>12 1</b> 0	314 ,
(7) Mining (Coal)	Dav	0 6 0	0 6 11	овв
Act coolles	Month	4 15 s	4 12 8	5.0
(8) Ita 7 Non act cooles	i	4 1 0	41,	1 43 -
i Averag		4 15 9	4 5 11	4 8 8

The importance of these industries may be gauged from the statistics of the last census (1811) which show that on the date of the census there were 704 000 employed on tee gardens 808 000 in cotton mills 222 000 in other twith industries and 149 000 in collectes. The rise is the wages of industrial labour has not been so great as in the case of agri ultural indourns and village artisans. Money wages of industrial labourers however have over long periods increased in all industries and the rise has generally been greater than or equal to the rise in retail prices except in the test, awar and brown my industries.

# Indian Education.

Indian Kducstion is Unintelligible except through its history been thus it affords the spectacle of a growth which, while to one it will appear as a huge blunder based on an initial error of judgment easily avoided to another stands out as a symbol of sincerity and honest endeavour on the part of a far-aighted race of rulers whose aim has been to guide a people allen in sentiments and prejudices into the channels of thought and attitudes best calculated to fit them for the needs of modern life and western ideals. A carriel survey of the history of Indian Education will reveal the opposition between two tendencies whose struggle for supremacy was finally decided by Lord Macaulay's Minute of 18-65. The be ginnings of public education in India belong commings of puth caucation in India belong to a generation before Macaulay's regime. But it was not till Macaulay poured eith emphatic contempt on Oriental learning that the Government in India in general definitely chose the math of English career of at the math of Indian progress. Manulay's Minute crystal there progress Manulay's Minute crystal lises a point of vicu which bad already some years before begun to impress itself upon (dn a statement of the summer of Lord Curson saying Ever since the cold breath of Majau lay's rhotoric passed over the field of the Indian languages and Indian text books the elemen tary education of the people in their own tongue has shriveled and pined, we must not suppose that the regarded Vacaulay as solely responsible for the trend which modern education has taken. It needs but a or ory glance at the history of education in India under British rule to make clear once for all that education on Western lines was necessary as an answer to a growing demand which none but callous rulers could refus as also for the very foreible reason that without some kind of organical training of Indian in Ergish composition and these the practical work of administration which demands an over increasing number of cierical assistance to meet the needs of steadily accumulating office work could never have been carried on These two points give one the clue to the main features of Indian educa tion (1) the claim of newly awakened race to be allowed to substitute for their own lifeless learning the progressive culture of modern

Western thought and (2) the abrious utility of a system whose object should be in part at least to usuat Indians to a development of their capacities and sympathus on lines which might be of service in the actual government of the country With reference to this last point the following consideration may be urged the object of our great Universities and Pub-ito schools in England is generally admitted to be something more than the satisfaction of to be something more than the satisfaction of purely chore tool intenset. They are meant to be the training ground of rapidle public seffvants. Let us once admit this to be a newestry in England if then we recognise the implementary of administering the great Indian Empire through Englaiman alone there seems to be no adequate reason for refusing to apply the sam methods to halls. And at there is nothing in Indian History to show the Particular value of any Oriental sy t in of education as a framing for public service the lo A si concla for a third indiana hands be colu-ted in Fuglish along West in lines. H an observer were confronted with a country suled by longing administration, backed up by a for ign series he would infer on a priori grounds that the said for ign jower had included in its legs lation a system of education analogous to it own—u his opu ion of it had rothed but to suppose that it had adopted the sex prical or ungenerous polls, of not caucating its sub-pers at all. That would present itself as the only possible all matrix. And the problem of Indian Education may be aid to isolve levelf into a doubt which of the two polices. to prehiable that of ron education or that of is previously that of ron education of the or lighth admitting. It the doubt itself he only to be stated to be solved. And the table of explaining Indian education become in the end simply one of showing how the initial on Couragement on the part of I much rulers of Urientall arning did not so much begin education a fost r the desire for education until at last the Government undertook the duty of guiding such as pirations into what it concerned to be the right channel. To this and our aim will be to show (1) Indian education in the stage of conception and its birth somewher about the time of Macadinys Minute (2) it growth and organisation ( ) its present Ituation

## THE BIRTH OF INDIAN EDUCATION

The seeds of an interest in education may be said to have been sown by the foundation of the Calcutta Wadra a by Warren Hastings in 1781 and the Sanskrit College at Lenares by Jonathan Duncan in 1791 Whatever Interest there was in learning during this period was directed solely to the encouragement of Bans Erit and Arabic Even the Act on 1813 which set apart a lake of rupses for the revival and promotion of literature and the encou regement of framed natives of India and for the introduction and promoti n o a knowledge of the sciences in the British territories of India was interpreted as a scheme for the emcouragement of Sanskrit and Arabic and it was not till the famous meeting of the Gov

ernor General's Council in 1835 that it was definitely discussed whether it might not accord with the meaning of the Act of 1818 to ord with the meaning of the Act of 1813 to 0st at hast part of the mone; for the encour agament of the study of English. But other forces had been aiready at work. In 1817 the Hindu folleg: was opened at Calcutta with the Arman of Hindus of the European and Asiatic Language. Res and sciences Loudish being a sirud the most rominent position. The moving spirit which i d to the foundation of this institution was Raja Ram Mohan Roy who in the words of Mr H B James in his important book Education and Statesmanship in India, incarnates the impulse which led thunking

ladians to desire and work for English Edu as well as in variety by belog, as it were, es catten." From that time forward the far grafted on their own provious knowledge and sighted observer must have realised that a leabed with their own original and pseuliar movement had begun which whether we would or not we could no longer check. The same phenomenon was witnessed on the Western side of India and Monntstant Eighinstone s. Minute on Education dated March 1824 de minute on Education dated Maria 1824 de serves particular notice for its recognition of the necessity of introducing a knowledge of European sciences into any solicine of education as well as for its who restraint in dealing with as well as for its wise restraint in usually re-ordered learning For though his declared object was to establish English schools and encourage the natives in the pursuit of Euro-pean sciences, he repudiates the idea that the massive Hearn side of admention should be to pean solutions, he reputates this loss that the purely Hindu side of education should be to tally shandoned. In his own words "It would surely be a preposterous way of adding to the intellectual treasures of a nation to begin

character Elphinstone | interest in character Etphinstone's interest in educa-tional matters was sufficiently approxisted by the citizens of Bombay who in 1827 the year of his departure, received to found two pro-resorables in bis memory to be held by gentlemen from Great Britain until the happy period when natives shall be fully competent to hold them. It is sufficiently clear not only that an interest had been aroused in English education but that some attempts had been trusted to meet the tolerate before 1828. been made to meet the interest before 1825, though Lord Curzon may have given a just estimate of the situation at the Educational Conference of Simils in 1901 when he said Education there was but it was narrow in its range exclusive and spannodic in its appli-cation religious mither than secular theore-tical rather than utilitarian in character. Above by the destruction of its indigenous intersture that rather than utilitarian in character Above and I cannot but think that the future attain all, it wholly leoked any scientific organisaments of the natives will be increased in extant than and it was confined to a single sex.

# **GROWTH AND ORGANISATION OF ENGLISH** EDUCATION IN INDIA.

It is, of course, just the possibility of this language is a strong argument in his favour engrating modern western knowledge on the This utilitarian motive for English education id Indian stocks that is open to doubt. Here-lurks often unconstitute and unrecognised in lies the significance of Macsulav's famous under the whole progress of Indian education thanks of Oriential science which deserves—to the detrimine as some think for the great quoting for the contrast it forms to the justice estimate of Mountstaart Elphinstone It is perhaps more offensive to Indian cars for the perhaps more obscinive to limits early for the element of truth it contains, though the en-tirely unsympathetic form in which he ex-presses himself is a sufficient stumbling block element to the content of the conten sound philosophy and true history we shall counterance at the public expense medical doctrines which would disgrace an Ragish farter astronomy which would move laughter in the girls at an English boarding-selool, history abounding with Kings thirty feet high and reigne thirty thousand years long and geography made up of seas of treade and seas of butter. The restorated phrase by unly varial confession is beyond the mark but Macaulay was surely right in his valuation of angiont Hindu science as science or history of ancient Hindu science as series or history was handly Where he was surely wrong was in his implied condemnation of Indian literature as iterature. From that point of view you might just as well condemn Homer for his mythology (as indeed Plato does in the Hepublic). Where again, he was possibly wrong was in his vehement antipathy to the wast has if nodern science at the het handle. view that, if modern science is to be taught, it should be taught through the medium of Takian languages. Yet here too be represents stated that in the selection of candidates for an atsisted which was fast becoming that of public employment, preference would be given entirely an indicated intilates. And, if there were no to those who had been educated in the newly other research, the ultimate nighty to the Gov reassent them of Indiana trained in the Eng. - of the old-fastioned intellectual dash of college.

charge against the modern Indian student is that he regards a career in Government schools and colleges not so much as education and an end in itself as a mere means to more or less

#### Universities Established

Macaulay's period of service on the Committee of Public Instruction (first formed in 1824) gave considerable impetus to the movement he advocated, as figures will show Whereas the Committee had no more than fourteen institutions under its control in Bengal when he loaned it this number was more than which he joined it dust under which more than trebled by the end of 1837 the larger part being Anglo-Vernscular schools or colleges. Progress continued along these lines in Bengal, and more slowly in other Presidencies, until in 1852 the numbers under instruction in Gov ernment colleges amounted to 26 372 of which 9,893 were for English education (James p.34) The increase of numbers must have been materially affected by a Resolution of Lord Har dings a Government in 1844 in which it was

Statement of Educational Progress in INDIA.

13		1908-09	1909 10	1910 11	1911 12	1012 18	1913-14
	Area in square miles Male Population Propisition	1 144 106 128 249,836 119 570 469 242 820 805	1 145 728 192 699 630 119 017 958 241 717 586	1 152,894 190 113 723 1.4 706,893 254 820 616	1 18f 518 180 408,551 124 960 002 205 868 553	1 187 680 130,402 188 124,801 088 265 153 821	1187 686 130 302,139 124 651 688 256 168,881
	Fubic Institutions for Males Number of stip colleges Mumber of high arbools Number of primary schools	121 1 174 106 329	1.18 1 190 1117 463	129 1 208 109 144	180 1 219 110 692	128 1 278 118 965	138 1 849 116 660
	Male Scholars in Public Institutions In acts colleges In high echools of In price of Inches of Inches of Inches of Inches of Inches of Inches In public Institutions to ruse promittion, of the bool-graing egg-	18 786 31 905 3 786 462 25 15	22 912 814 647 3 888,671 26 2	24,806 %4 704 3 936 419 25 3‡	29 369 890 881 4,202,631	32 081 428 182 4 428,531 28 4	88 886 466,886 4 600,406 29-8
	Pubbe Institutions for Females Number of state colleges Number of high schools' Fumber of primary schools	11 511	125 11 758	9 180 720 21	10 155 12 886	10 144 13 694	11 167 14 722
	Fossie Scholars in Public Institutions In arts colleges In high schools In parama, schools In processes of frends scholars in public institut there for formals expolars in public institut there for formals in public institut there for formals in public institut there for formals in public institut there for formals in the public institut there for formals in public institut there for formals in public institut there for formals in the public institut there for formals in the public institut there for formals in the public institut there for formals in the public institut there for formals in the public institut there for formals in the public institut there for formals in the public institut there for formals in the public institution in the public in the public institution in the public institution in the public	13 654 13 654 681 806 4 0	217 14,257 668 616	244 14 864 629 471 4 2‡	279 16 884 785 611	818 18 515 832,982 5 0	258 21 0 45 909 256 5 4
	TOTAL SCHOLARS in public institutions   Main	4 650 134 720 342 5 970 476	4 826 564 763 580 5 590 134	4 980 084 793 946 5 729 730	£ 258 066 875 660 6 128 72.	5 550 441 928 988 6 488 894	6,828 216 1 019 631 6 842 896
	TOTAL SCHOLAES (both male and femals) in all haddenloss. Expenditions (in thousands of reces)	5 972,204	6 203 805	6 845 082	6 780 721	7 149 662	7 518 147
	From provingled revenues From local funds From manufeited funds	212 11724 2427	2 34 30 1 02 24 24 56	7,42,98 1,00,83 1,00,83	2 69 59 1 06 80 29,84	3.96.20 1.23.08 83.88	3 04,54 1 47 91 87 0
	Total Expenditure from public funds From free From chee sources Gran con Toyak, on Expunitures	3 53 98 1 69 87 1 35 18 6 59 49	3 61 10 1 85 42 1 40 24 6 86 78	3 70 40 4,00 67 1 47 61	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2, 40, 50, 11, 12, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	9,66,64 1,85,49 10,05,94
	E Linn ashorts maritate where the books also in some resultness		good and		- · [		

High schools notice vermounts light schools also in sume provinces
 The percentage for 1910-11 believed so the new Cemain figures are slightly mistereding for purposes of comparison with previous.
 This remark applies throughout all the Tables.

life would see in this Resolution a tatal inspiration of the Commission of 1882 appoint concession to the utilitation view and a fatal od to inquire into the way in which the reco mindirection of public attitude towards edu

Meanwhile educational institutions had so multiplied throughout India that the time was becoming ripe for the decisions arrived at in Sir Charles Wood's Despatch of 1854 The old idea had been that the chucation in parted to the higher classes of society would gradually filter down to the lower classes. How little true it is that education could ever flier down to the masses in India by its own percolative properties is evident enough even now when our wide system of schools entirely now when our wide system of schools entirely fails to touch the majority of India a population. The Despatch of 1884 marks a departure from the filtration policy and a reogentation on the part of an entithtened Government of educational duties, even towards sections of the population who had never enter the state of department children or the section of the population who had never enter the day of department children or the section of the population who had never enter the section of the population who had never enter the section of the population who had never enter the section of the population who had never enter the section of the population who had never enter the section of the population who had never enter the section of the population of the population who had never enter the section of the population of the population who had never enter the section of the population of the population of the part of the section of the part of the population of the population of the part of the tained the idea of Government obligations in their direction. The result of the Despatch was the formation of Departments of Public Instruction on lines which do not differ at all essentially from Departments of Public Ins traction of the present day They represent a direct describin of the lauser fairs or filtra tion policy and an attempt on the part of Government to combat the ignorance of the people which may be considered the greatest came of the country. Another feature of Another feature of line of a University the Despite was an outline of a University system, which formed the basis of the scheme adopted in 1857 when Acts were passed for the incorporation of three Universities one for Calcutta one for Bombay and one for Madras. As Lord Curron said The Indian Universities may be described as the first fruits of the broad and liberal policy of the Education Despatch of 1854. He might have gone further and said that the scheme outlined in the not only originated universities but contained suggestions for their proper conduct whose value has only recently been understood in its proposal of a distinction between common degrees and before the continuous degrees and before the conduction of the succession of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conduction of the conductivity of the conduction of the conductivity of the con the Despatch was an outline of a sixty years.

#### Private Agencies

The Despatch of 1854 and the orders based on it, together with later resolutions and modifications, organised education into some thing like the present system Government took the whole thing into its own hands and catablished Universities, colleges high schools and middle schools. Efforts were made to extend elementary education so as to reach the masses and also to establish a system of inspection with a view to guaranteeing the tie allowed grants-in-aid as well as Government

mendations of the Despatch of 1854 bad be carried out. The result of the Commissi was to relax the control exercised by Government was to relax the control exercised by Government's will drawal was intended to refer only to seconda. matraction. The idea was to encourage powers enterprise in the founding of secondars schools. But though the recommendation of the Commission included much talk of on ditions and centions and of the necessity a maintaining a high standard, the addition a further recommendation that the manager of aided schools and colleges be permitted they wished to charge less fees than Govern ment achools of the same class led in the resul to a general deterioration of standard. The recommendations of this Commission appear to some as a charter of inefficiency. The are the avenue to educational institutions run as a business proposition. Meanwhile perhap the most creditable feature of the Commis sion a Report was its insistence on the impor-tance of Primary Education and its recommendation that primary education and is recommended to that part of the whole system of Public Instruction which possesses an almost exclusive claim on local funds set apart for education and a large claim on provincial revenues. The least creditable feature is its recommenda that preference he given to that system which regulates the aid given mainly according to the results of examination. To pay by results is wilfully to oncourage the cram ming institution

## Great Expansion

The period from 1882 to the beginning of the new century is one of phenomenal expansion There was a general stamped for education, and no proper regard was paid to the standard or quality of the product it is this period which if any deserves the opprobrium incurred by education in India. And it is the univer-sities which stand out as the chief sinners. There can be no reasonable doubt that students were being turned out with degrees attached were being curried out with degrees attached at to their names who could not be regarded as educated from any respectable standpoint As a man who is doubtful whether an act of his really is so praiseworthy as the general chorus of congratulation had led him to sup pose, suddenly with tramors at the thought of the revulsion of opinion that is sure to follow the revulsion of opinion that is sure to follow if he turns out to have done wrong, feels certain of his error so our Governors and Chancellors and Vice-Chancellors of this period gradually arrived at the conviction that something was wrong with the seemingly excellent product of the Despatch of 1864 and the Commission of 1882 Criticism began from without, but smally it invaded the sphere of Convocation, addresses At last in 1901 the Vice Chancellor of the University of Calcutta made the state-ment. We the first time the Chancellor the allowed grants-in-aid as well as Government of the University of Calcutta made this state-institutions themselves. Expansion under most. For the first time the Chancello-control sums up the alms of this combined asks the University to consider the possibility system of grants-in-aid and inspection. As of constitutional reform. In September of the Mr. James puts it Local management by the Vicery Lord Curson. First year an educational conference was continued Government in specific and in the Vicery Lord Curson. The total content to government of the system of the s

	00 8001	1900-10	10101	1311-12	19191	1918-14
		27 -02-1			17-7107	
Are in square talies [Male   Penale   Female	> o change	No change	141 866 20 15., 916 20,770 668	142,481 20 389 666 41 029 264	To change.	No change
Total Population  Public Jantistrons for Makes  Tumber of arts colleges  Tumber of high schools  Nember of primary schools	% 180 180 22,412	30 172 23 108	30 17 28 426	30 168 168 24 041	25.2223	34 176 26 018
Mais Scholars in Paster Institutions In arts colleges In the schools schools schools schools Partner schools Percentage of main schools in public institu Percentage of main schools schools	4 227 64 149 689,817 27 8	1911 72 673 739 931 80 8	3 700 69 548 766 884 29 7	4 493   71 494   929 331   930 8	77 581 880 983 881	7 029 86 364 962,036 35 5
EORS to Land population of serious general Parkies Institution for Fender Number of lands evoluges Number of lands actioned we wenches of infrients solitons	8622	- - 12.888	T 3306	2   33   1162	3,6	2 7 1 448
Fracts Scholars in Profice Institutions In arts colleges In the schools in particular scholars in particular schools in particular schools scholars in public institu Personiago of femals echolars in public institu	38 4 981 185 784 5 8	4 212 4 212 147 910 6 2	4 027 178 027 0 1	1010 1900 1900 1900 1900	56 4 689 223,835 7 4	5 401 5 401 2 46 214 8 3
TOTAL SCHOLARS in public institutions   France	818 056 168 167 081 223	870 506 181 461 1 051 968	806 701 190 861 1 087 562	943 369 209 617 1 162 886	1 011 763 234 197 1 .45 950	1 085 948 259-706 1,345 554
TOTAL SCHOLARS (both male and female) in all inglighters.	1 009 615	1179 048	1 21.0 72.5	1,280 065	1 862,192	1 459 945
Expressions (in Mothernal of reference Prem provincial revenues from provincial traces researching from the research tracks	20 91 3 84	39 07 11 45 3 17	43 16 11 24 8 21	315 315	59.20 17.27 4.16	86 69 89 94 (6) 89 84 (6)
Total Rependiture from public funds From fees	52 64 32 50 32,87	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	57 41 87 28	50 65 17 96 38 10	79 62 41 44 86,56	96,286 46,04 39 67
CRAMO TOTAL OF EXPERIMENT	1111	10000	1 27,08	1 35 06	1 67 62	1 70,99
include also versacular high whools for grid. (4) includes provincial confribition of Rs 13,07 904.	8 13,07 994	(b) In	(6) Lichtdes provincial contribution of Re 1 82,669	l contribution a	f Re 1 62,669	

#### UNIVERSITIES ACT AND PRESENT SITUATION

The fluministics of 1882, which is versed the policy of withdrawing higher education from the centrel of Government within certain the control of Government within certain the colleges have defined rights of regressin them the centrel of Government within certain the colleges have defined rights of regressin them the control of Government within certain that on the Syndicate, to this extent that the shocks educated by private enterprise to a small conducted by private enterprise to a small in many details it is also that the shock of a majority must be heads or probasors of a majority must be heads or probasors of small in higher education in some conducted in higher education in consistent it amidpated all that has litherto probasors of Colleges. It is evident that there should be two sides in suggesting that the working bodies in the Universities the chief of a more practical educational element. from the control of Government within certain limits and of allowing colleges and secondary schools conducted by private enterprise to reduce their feet, though in many details it make admirable proposals, yet by its general policy bed to a general incliniency and lowering of Bundard in higher education in some instance it anticipated all that has hitherto been done. For example, in suggesting that there should be two sides in secondary schools. one leading to the entrance examination of the Universities, the other of a more practical character, intended to fit youths for commercial onanguer, monature in yours for commercial and other non-literary pursuits, it still and cipates Government action by many years. The Universities Commission of 1902 proposed to make the School Final examination a pre-liminary test for certain professions and posts liminary test for certain professions and posts in Government service and to substitute it for the Matriculation as a general qualification, even, if possible, as a tout of fitness to enter the University. The latest statement of Government polloy (dated Feb 1918) re-americand emphasises these proposals which are an attempt to enforce the suggestion of the Commission of 1882. But the general relaxation of Government control seemed to Lord Ourson the radical cyll of his day

#### New Sesates

Not to speak of the lowering of efficiency consequent on the lowering of fees in schools and colleges by private enterprise, we may import a manong the more glaring defects which Lord Corson had to face the maladministration of the Universities due to the mistake of their composition. All kinds of people had errept into the Senstee of Universities who true the true educational point of view had described the Composition. erept into the Senates of Universities who from the true educational point of view had no business there. The numbers had become wavished so that it was impossible to get passed even recessary reforms. The progress of education was retarded and modern innova thus simply ignored. As reconstituted the Universities have revised their regulations and though they have not cased to be examined universities they have taken upon ibernselves the necessary function of inspecting the colleges affiliated to them. They have also received powers of becoming teaching bodies. Little has yet been done to make them that but it may be judged from uterances in their Stantes that they are becoming immendingly conscious of their possibilities or duties in this direction. In the last Resolution on Education (Feb 1913) it was decided that the principle of an examining and affiliating University must still be main tained. Nevertheless a movement is promised in the direction of new local teaching and readontal Universities within each of the provinces in barmony with the best modern opision as to the right road to educational effection of university has been reduced to see hundred or less in number and the Act was destined that the principle of manners the teach of members of the by an exaction of the second o

educational element

#### Policy of 1918.

The influence of Lord Curson on educational progress has been generally salutary For though his reforms had the air of restriction progress has been generally seatherly for though his reforms had the air of restriction and raised a general outcry in India.—"the least that Lord Curson was charged with was a deliberate attempt to throttle higher education in India ( 'Indian Unrest by Valentine Chirol)—it is now recognised by enlightened thinkers that all branches of education required careful review Before any quantitative increase took place it was necessary to reform the qualitative base A glange at the work done as summarised by the last Quinqueunial Review will show how the machinery has been cleaned. The Universities are now respectable secundary schools have been improved and placed under stricter conditions of recognition stentien, though in staticient, has been paid to the training of teachers in primary schools examinations have been simplified buildings improved, the pay of teachers raised the courses of studies revued and widened. In these circumstances the Government Resolution of 1918 was the Government Resolution of 1918 was justified in its aims to extend educational institutions on every side. It proposed to double the number of primary schools (a scheme which may be regarded as a compro-mise between the policy of largest fairs and that mise between the policy of trasses fairs and that of compulsory education) and to encourage the establishment of a greater number of second ary schools on the lines of private enterprises by increased grants on conditions of submission to Government inspection, recognition, and control. One of the most interesting features of the Resolution is Government desire to develop the hostel system. In the words of the Resolution The Government of India desire to see the hostel system develop until there is adequate residential accommon dation attached to every onlege and secundary school in India. Attogether the Besolution of February 1913 ranks as a notable pronouncement, ranging as it does over every conceivable topic, from the Universities to what is often called Female Education, with a depth of in sight and a readinese to face the most complex sight and a readiness to face the most complex problems of finance and organisation that agents well for educational progress. There are no hope that our educational system in India will stand out as one of the most remarkable achievements in the latery of imperiors.

# Statement of Educational Progress in BOMBAY

-	1908-09	1909–10,	1910-11	1911-12	1912–18,	1913-14
Ares in square miles Population  Total Population	No change	No change	188 828 14 006 375 13 071 673 27 078 048	14 018 522 14 018 522 13 074 273 27 087 795	No change	No change.
Number of narth colleges Number of night schools Number of high schools Number of primary schools	11 112 9 900	11 114 10 686	11 267	11 129 11 609	11 188 12 160	12,790
and the colleges In high schools In high schools In high schools Percentage of male schapers in public metrn there to male propulation of school-going age	2,613 36 921 589 513 30 9	2,956 97,707 580,927 83,2	3 177 39,569 39,197 11 8	3 643 41 825 630, 427 88 6	8 850 45 885 878 031 96 2	4 604 47 427 701 496 37 6
Futber of arts colleges  Kumber of Ingin schools  Kumber of Ingin schools  Kumber of Light schools	25 1 060	28 1 104	1 181	1164	3.88	32
In the colleges to constant or twice institutions in the colleges in the colleges in the colleges in primary schools in primary schools. To present see of fermes or colleges in public matter than to frame from the colleges in public matter than to frame from the colleges in school-colleges.	80 2 859 101 328 5 8	2 920 109 906 109 906	2 967 112 106 6 1	8 662 126 703 6 9	4 095 186 878 7 4	97
TOTAL SCHOLARS in public institutions   Female	108 176	116 781	967,469	184 681	761 485	790 303 1.04,019
TOTAL SCHOLARS (both male and female) in all institutions.	792 559	860 058	787 (86) 868 535	922 877	906,827	946 988 1 089 017
Any of the property of the contents of repeat from provincial revenues From four funds From numerical funds	48 72 10 77 7 34	10 34 7 50	10,84 10,84 10,84	58 98 10 76 10 14	08 82 11,02 9,85	70 54
From hexpenditure from public funds From these From other nources Gauss man	66 83 26,40 30,90	88 88 88 88 89 88	82,58	74,88 26,27 85 02	96.55 84.55 84.55 84.55	988 888 888 888
TOLIGE OF KAPREDITORS	1 18,03	1 23 52	1,24 00	1 86,17	169 46	1,59,58

acc General is the Chancellor of the University to control the work of a particular subject of Calentia and the head of the provincial. The Faculties are in most cases those of Arts Government the Chancellor of each of the other release law medicine and engineering. The Twentites. The Vice-Chancellor is nominated an oriented faculty in the Funjah Universite Universities. The Vice-Chancellor is nominated by each head of Government. The accordance body is the Syndheste which is now organised so as to contain a larger educational element. In a University is represented in addition be so as to contain a larger educational element. In Southest except the Vice-Chancellor presides, whose duties are to look after the curricult all other members being elected by the various and recommend text books or books which struction who is a member at office of Public in represent the standard of knowledge required members are office of the Manager of the Senate which is divided into faculties, as a whole consists of from 76 to 100 members that the properties of the Manager of the Manager of the Manager of the Manager of the Manager of the Manager of the Manager of the University the Senate which is divided into faculties, as a supposited of the University of the Univers

#### II KIVERSITES

Constitution - There are in British India five Universities with the following territoria limits (Wixth Quinqueunlal Review p 207)-

	Territorial Limuts	
L niversity	Province (including any Vative State under its political control and any foreign posession included within its boundaries)	Nativ State or Colony
Calcutta Madras	Bengal Burma Assam Bihar and Oriesa Madras and Coorg	Hyderahad Mysoro and
Bombay Allahabad	Bombay and Smd United Provinces of Agra and Oudh, the Central Provinces (including Bern) and Ajmer Merwara	Cevion  Baroda  The States included in the Rajputana and Central India Agencies
Punjab	Punjab, Aorth West Frontier Province and British Balu chestan.	Kashmir and Baluchistan

#### Courses and Examinations

The Matriculation Examination is the test for culture, medicine or engineering must in most intrance to a University After matricula cases first attend an Arts College for one or chrones to a University After matricula-tion, if the student decides to graduate in Arts he must take a four years course After two years he takes the intermediate Examina two years no takes the intermoduate Examinas tion. After anoth r two years he may appear for the Examination for Bathelor of Arts The regulations with regard to Homours vary in the different Universities. In Calcutta the honours and page courses are aspecta-in Bombay the homours student takes in addition to the pass three extra papers. In Madras the honours course is taken the year after and in addition to the pass course The degree of Master of Arts requires a further examina tion (except in Madras) which is taken one or two years after the examination for the or two years after the examination for the B. A. degree. If the student telects to take But it should be remembered than in some science his course is one of four years. In some Universities he receives the degree of B. A., in others a separate degree of B. A. in others a separate degree of B. C. Where the separation between Arts and Reience is clearly defined, the student takes the Interest Examination in Reience two years after Matricellation, and two years after the examination appears for that of B.S. Those indents to found a teaching and residential university at Decoa. Government also profess who choose a professional course eg agri

cases and the control of the professional college. The student who has graduated as Bachelor of Law in two years.

The annual output of graduates is reckoned in the Slath Quinquennial Review at 2742 and the proportion of students who graduate in the four main faculties is given as follows -

Arts	85%
Science	20%
Medicane	9%
Engineering	4%

BENGAL	
Progress in	
_	
Educations	
Statement of	
Sta	

							_			3 <b>9</b> .
1913-14	No change,	81 570 27 470	14 689 182 648 982 610 41 4	8 20 7 0%8	113 3 658 210,157 7 1	1 452 818	1 747 608	64,99 28.23 1,70	88 98 98 98 98 98	2,30,77
1912-18	78 699 23,365 225 22,117,862 4f 488 077	31 582 28 107	12 791 164 244 999 110 40 9	21 84 84 8	105 8 090 205 784 6 8	1 485 452	1 718 628	84 97 15 88 1,56	45,41 86,62 87,03	2,02,71
1911-17	> o obange	29 388 76 142	9 635 103 096 1 047 769 33 2	3 19 124	2.423 15×61¢	1 464 946   189 971   1 5 4 917	1 609 380	64 76 11 64 1 70	98 10 86 98 96 04	172,08
13-010-11	124 492 27 436 18- 27 387 103 75 (28 840	29 389 35 437	8 255 94 841 997 953 81 4	3 10 3 0.2	63 2 301 146 223 4 2	1 290 621 173 207 1 163 82H	1 018,439	50 16 11 64 1 58	95 88 81 02 86 31	16071
1909-10	124 492 26 124 820 26 645 019 52 669 869	29 398 7, 201	7 107 87 172 982 103	17.2	2 046 145 231	18, 500	1 475 176	49 95 11 36 1 41	62.70 58.19 82.83	15089
1908-00	Xo Clasus, 26 675 026 27 007 560 1772 586	1 150 1 150	4 613 62, 42, 908 839 30 2	3 020	42 1 974 130 904 3 9	1 208 719	1 421 389	40 79 11 56 1 32	72.07. (29.71. 20.20.	14468
	Area in squar, miles (Male Population Trital Population	Publu Irakuttons for Males Kumber of arts colleges Kumber of then schools Kumber of primaty schools	Hale Sokolo a in Public Institutions In arts colleges In arts colleges In prince whose In prince whose Fresulage of Institution of Institutio	Source of latter proposessors of the colleges Number of sarks colleges Number of the sections from the section of the sections of the sections when the section of primary sections were sections as the section of primary sections.	Frends Schalen in Public Institutions In arts colleges The Arts schools In Primary schools In Primary schools Liptune of Armsi scholers in public mettin Recentage of Armsi in account order are	Total Scholuse in public institutions   Maic	TOTAL SCHOLARS (both male and femule) in all tastitutions	Expendulur (in thousings of tweet) From local tunds From multipal fands	Total Expenditure from public funds From iters From other sources	CHAND TOTAL OF EXPREDITURE

conditions the establishment of similar uni conditions the establishment of similar and versities as occasion may demand. An act constituting such the University at Benarch has been passed by the Imperial Council this year. These experiments may be regarded as an attempt to get away from the affiliating and camming type of University and to conform to that ideal of a University which requires it not only to confor degrees but to supervise the training of intellect and character as closely as possible. A University of this type will turn out graduates who may be trusted to have in their degree astisfactory credentials a bout their general attack who may be triliced to have in their organ-attacker or codenitals about their general character and ability Under the existing system the University turns out graduates of whom it knows absolutely nothing beyond what it learns in examinations.

#### Colleges

Affiliated to the University are colleges which the University have power to inspect and requisite. In 1918-14, the number of colleges affiliated to the Indian Universities given as 196 of which 149 are Arts Colleges, 11 Law Colleges four Medical, four Engineering 21 Law Colleges four Medical, four Engineering three Agricultural one Commercial and thir teen Trachers Training Colleges. The number of attodents in Arts Colleges was 39,189 and in all Colleges in Arts Colleges whether under Government or private management are inspected by the Universities. Colleges receive financial and from public funds both provincial and Imperial. Under the Universities Act the Universities are empowered to make regulations of the College are departed and interest the recitance of colleges redeated. letions about the residence of college students. The rule now is that students who do not re-The rule now is that students who do not reside with partit or guardam must reside either in a bearding house under supervision or in an approved looking house The result has been a larger provision of college residential buildings. The hostel system is definitely encouraged by Government and in the latest Resolution (Feb 1913) Government express the desire to see the hostel system extraded to all colleges and securious response. The number of the colleges and securious response to the colleges and securious response. all colleges and secondary schools. The num ber of female students was 353.

#### Schools

Government policy with regard to schools has been to provide a small number of institutions which are to be regarded as models for private enterprise. At the same they haist on a careful inspection of all tems they mass on a carrent inspection of an esholicit, whether they are run by municipalities or local boards by private individuals or by missionary or other societies. Private enterprise is encouraged by an extensive system of granis-in-aid, which are dependent on the efficiency of the school and its expenditure on teachers and general equipment

#### Secondary Schools

There is some difficulty in the classification of Consequential Review is followed as issuing from

ed into high and middle schools. In the former instruction in its highest branches leads to the standard of matriculation for a University, standard of markenhation for a university, in the latter instruction is carried to a standard within three years of that in high schools. Thus there are four kinds of schools. Rugikan, High and Middle, and verrasoniar High and Middle, of these the first two are often called Angle-Vernecular as they combine instruction through the medium of the vernecular with instruction through the medium of English. But as there are so small a number of vermoular high schools that they are hardly worth in-cluding in a classification and further as the vernscular middle schools are simply the high est stage of vernacular education and should set stage of vertacular education and should therefore be included in the primary school system, the Review regards the distinction between English High and English Hiddle schools as a satisfactory classification. The distinction between these two is slight. A middle school in the words of the Review "is middle school in the words of the Review " is nothing more than a high school with two or three top classes cut off." There are now two examinations which a boy may take at the end of his school career—(1) The Matriculation examination, (2) the School Final. In order to prevent the cylls arising from setting a Uni versity examination as a test for a school educa tion Government now buist on the School Final as a test for certain professions and posts in Government Service. The latest Govern in Government Service. The latest Government Resolution lays particular stress on this point.

#### Primary Schools.

Here again there is a difficulty of classification Here again there is a difficulty of classification owing to the different systems provaining in the different provinces. However they are divided generally according to grade into lower primary and upper primary. Middle venacular schools, classed usually among secondary schools, are beautiful y superior primary schools and bear little relation to the systems prevailing in secondary schools. Primary schools, as the Review points out have been defined as the education of the masses through the vernacular. If the medium of instruction be taken as the differentiation, then clearly middle vermenlar schools ought to be classed as primary In 1913
14 the number of these schools was 116,650 In the Government Resolution of Feb 1913 is found the following statement 7t is the desire found the following statement and hope of the Government of India to see in the not distant fiture some 91 000 primary public schools added to the 100 000 which already existed for boys and to double the 41 millions of pupils who now receive instruction in them.

#### Primary to Angle-Vernacular

The transition from Primary to Angle-The transment from Primary to Angue-vernacular schools, that is, from primary to secondary education is comparable to the transition from a Board school in Eng schools, secondary and primary. Here the lifth function from a Board school in Eng dusquemial Review is followed as issuing from land to a secondary school under the authority of a Municipality or County County County. Secondary is that first place. In the Empirical Secondary is a Municipality or County County County in the first place. In the Empirical Secondary there is a difficulty owing to different price of the instruction in the lower past and the second prevailing in different Presidencies and provinces aboy may begin maddless of instruction in the upper part of the in a versacolar primary school and pass from the second place there exhect any first place in the second place there exhect any first place in the second place there exhects any first place in the second place there exhects any first place in the second place there exhects any first place in the second place there exhects any first place in the second place there exhects any first place in the second place there exhects any first place in the second place there is a secondary of the second place there is placed in the second place there is placed in the second place there is placed in the second place there is placed in the second place there is placed in the second place there is placed in the second

Statement of Educational Progress	in RIHAR an	d ORISSA.	
	1911 12.	1912-18.	1918 14
Area in square miles Population   Waln	98 1.0 18 032,708 18 827 328	No change	No change
- [Fomale			
TOTAL POPULATION	36 860 036		<u> </u>
Public Institutions for Males		_	
Number of arts colleges Number of high schools Number of primary schools	7 93 21 990	7 95 22,452	22 509
Male Scholars in Public Institutions			
In arts colleges In high schools In primary schools	1 430 25 402 27 841	1 22 28,110 592,242	2,062 28,712 607 962
Percentage of male scholars in public institutions to male population of school going age.	24.8	260	203
Public Institutions for Females			<del></del>
Number of arts colleges Number of high schools Number of primary schools	3 1 259	8 1 498	3 1845
Pemale Scholars in Public Institutions			
In arts colleges In high schools In primary schools	286 78 076	287 82,254	317 91 567
Percentage of female scholars in public institutions to female population of school going age	32	8 4	3 7
∫ Male	869 921	704,485	712 503
TOTAL SCHOLARS in public institutions {	90 958	95 281	105 479
Total	780 874	799 766	817 982
TOTAL SCHOLARS (both male and female) in ull institutions	804,658	847 244	861 535
Expenditure (in thousands of rupees)			
From provincial revenues From local funds From municipal funds	19 55 7 25 52	28 11 8,24 52	98 71 11.20 91
Potal Expenditure from public funds	27 32	81 87	45 91
From other sources	17 85 11 27	18 11 11,90	29,69 13 41
Grand Total of Experiments	55,94	61,88	79 92

sear begin in the vernacular schools below proceeding to the secondary schools in other provisions children say do so (The Italica are outs). The point at which the teaching is since the secondary schools is since the secondary schools is since the secondary schools is since the secondary schools is since the secondary schools which children from vernacular schools can be distilled but in the United Proviness and the Pulinjab there are special arrangements maste to facilitate the transition from the vernacular school system to the secondary school system of children who have pursued the vernacular school ocurse to a higher point than this. (p. 67) it may be useful to describe the actual procedure in one Presidency In Bombas before proceeding to an Anglevernacular school a boy must have passed standard IV of a primary school and a girl standard III. The curriculum of the first three standards of an Anglevernacular school is vernacular school (Standards V II)—except that in the Anglever nacular school Mugliah is added as a subject, though not used in three standards as the medium of histinction.

#### Rural Schools

In the provinces of Bombay Bengal the Punjab and the Central Provinces a distinction in Grawn between rural and wries primary schools. The curriculum differs according to this distinction. In the Central Provinces the distinction in the Central Provinces the distinction was, up to the time of the publication of the last Review one of time mainly to allow the boys to spend half their time in agricultural work. The opposite of rural schools is not so much to teach agriculturatis in an elementary way. In 190, an attempt was made in Bombay to introduce agriculturals was made in Bombay to introduce agriculturals was made in Bombay to introduce agriculturals at the elementary way. In 190, an attempt was made in Bombay to introduce agriculturals was made in Bombay to introduce agricultural prival tuxt-books, the effect of which may only have been to deerroy the Laith of the boys in taker father's primitive methods with out having any appreciable influence on the improvement of agricultural practices. About a year ago a meeting of educational inspections decided against this experiment. The whole question of remodelling the rural school course has been reconsidered, and in Eumbay at least that and the ordinary primary course to the same time as a boy who starts in an urban school. The idea is that boys educated in rural school should not be put at a desadvantage. At the same time—and this is important—an attempt has been made to make rural education, how ever elementary form a system of elementary education are un important and indefinite, in Bombay at least. How is a desadvantage in the interference between rural education are un important and indefinite, in Bombay at least. The last Government Resolution declares it to be in the agricultural primary education are un important and indefinite, in Bombay at least, and the castine sind of urban primary achoots, but in the latter class of elements of supple introduced of complete in their, and the rating of geography school extrusions, etc., and the castine study should v

be substituted for the study of the village man. As competent teachers become available a greater differentiation in the courses will be possible." Such differentiation has long been found a perplexing problem, and it may be doubted whether with wisdom any but indefinite differences can be introduced.

#### Professional and Technical Education.

Industrial schools are to be found dotted about India some maintained by Government about India some maintained by dovernment others by municipalities or local boards and others by private bodies. One of the most important institutions of this type is the Victoria. Jubiles Technical Institute in Bombay. There is also the well known. Thomason College of Engineering at Boorkes, the College of Release. at Poons, and the Sippur College in Bengal There are Schools of Art in the larger towns of India where not only architecture and the fine arts are studied but also practical crafts like pottery and from work. There is also a school of Forestry at Dehra Dun in the north of India Besides there there are many medical achools Bestder these there are many modeal schools and colleges which prepare students for the medical degrees of the arious Universities and of which the Grant Medical College in Bombay may be taken as a good example. There are agricultural colleges, the most important of which is the Pusa Agricultural College and Research institute which trains experts in specialised branches of agricultural science, such as agricultural chemistry occurnic botany mycology and entomology we may also mention the Indian institute of Science at Bangalore the product of generous domations by the Tata family Two institute donations by the Tata family Two institu-tions mark the progress of educational interest in the Bombay Presidency the Government Institute of Science—for whose capacious build ing (not vet completed) the Government to Indebted to the generosity of Sir Cowasii Jehan gir Sir Jacob Sassoon and Sir Currimbhov Physhim-and the College of Commerce tasts tuted to supply teaching in connection with the University

#### Colleges for Teachers.

There are training colleges for secondary teachers in various parts of India and what are called in some cases Training Colleges in others normal schools, for the training of vernacular teachers As there has been considerable disastisfaction on account of the disfective qualities and pay of teachers in schools, Government are now wakening to the importance of paying more carried attention to these institutions and the last Resolution provides for a better scheme of two for teachers.

#### Education of Girls.

Hitherto little attention has been paid to this important branch of education. Even in the latest Resolution nothing is definitely proposed though certain lines are laid down for guidance of enter price in this direction. However there do exist schools and colleges for girls, white a number of the formate sex are clucated at institutions common to both sexes. Arts Colleges, Medical Colleges and the like admit both male such can colleges and the like admit both male such can be suited them. In those Presidency Towns, however where there are no colleges

Statement	of Educationa	Statement of Educational Progress in the United Friedrings	THE CALLED AT	COATURES.		
1	1908-09	1909-10	1910-11	1911-12	1912-13	1917-11
Area in square miles   Maic   Maic   Female   Female   Female   I female   I	\\ \o change	No change	107 104 24 628 344 22,565 048 17 193 302	107 267 24 641,831 22 540 213 47 182 044	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Vo change
Public Institutions for Males Aurober of arts colleges Number of this behoods Mumber of reference schools	25.0 201.0 201.0	9 26.	81 113 0 067	83 115 9 2.48	92 117 10 158	85 183 10 444
Majo Scholar in Public Institutions In arts colleges In high rebools In plumary science To plumary science To result go for the science How to real a consolution of whool science are	3 JB 25,647 4 0.800 14 6	430,67 14 0	4 181 83 192 432 497 14 4	4 60% 34 257 470 969 10 6	4 888 8) 404 097,551 17 4	5 286 38 232 54 667 18 1
Public Restautors for Frindles Number of lands schools Number of lands schools Number of lands schools Number of lands schools	4 01 8	4228	20 941	8 E E E E E E E E E E E E E E E E E E E	1 008 1 008	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Female Scholers in Public Institutions In arts configuration In high vertical In princary schools Fercondage of female mains in public institu	39 314 39 314 1 5	1 960 36 017 1 2	51 1 824 37,965 1 3	54 1 804 41 840	1 984 1 984 4 , 943	2 187 46 685 1 6
TOTAL SCROLARS (both male and 1 male) in all	19 411 14 719 0.83 713 6.8 418	513 175 41 529 574 704 647 541	530 841 43 066 573 407 645 787	273 194 48 394 621 686 712 040	643 900 66 209 694,169 788,288	668,707 55,526 57,24 838 819 478
Lancatacher (is thousands of rap. es)  From provincial recenus From soul funds From soul funds From soule from public funds From soule from public funds From soule from from public funds From soule from from from from from soule from from from from from from from from	21.76 30.2 2.81 2.81 15.03 14.67	29 45 27 669 8 010 10 16 16 11 758 11 758	31 33 24 74 8 174 8 174 8 174 8 174 8 174 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37 50 28 64 3 64 3 54 67 58 20 50 19 85	26.04 26.04 26.03	46 74 80,50 4,95 4,95 8194 25,07 21,28

tring the influential class of women and mother's reduct to some sympathy with modern thought and ideals. It may be presumed that Govern ment will pay very limited attention to this adds of education until Indians themselves demand such a move Most Indians object to brraschose on their family life and take a different attitude to women from that of West ern races. Still there are schools for girls and lemale manestresses employed by Government

#### European Schools

There are schools for Europeans and Eurasians in India and they are inspected by Government importors specially appointed for the control of European schools and for the allocation of grants to schools under their sphere of influence. The education of the domiciled communities has been found a singularly perplexing problem, and in 1912 a special conference was summoned to on 1917 a special conserence was summoned to:
consider the matter. The difficulty is that they
are a thing apart from the general system of
education devoted to Indians proper

#### Educational Services.

These are divided into (a) the Indian Educa tional Service, (b) the Provincial Educational Service, (c) the Subordinate Educational Nervice, (c) Subordinate Educational Service.

(s) Indian Educational Service — The Indian Educational Service is comprised of dis tinguished graduates of Universities of the United Lingdom, chiefly from Oxford and Cambridge At the bead of the Educational Department in each Presidency is the Director of Public Instruction, who is member of the Service drawn from one of its branches of the Service drawn from one of its branches and an affects a member of the Legislative Council of his Presidency Under him are Educational Officers in three branches, (a) Inspectors, (b) Principals and Professors of Octogram (c) Headmasters of High Schools. Under the present system it is still possible for an English graduate sent out from home to start in one branch of the service and pass force one to another at the will of Government. All, with some few exceptions start at the pay of Rs. 500 per mensem with an annual increment of Ra 50 per menson, and go up to Ra 1 000 per meason, the Director of Public Instruction being put on to the salary of Ra 2,500 per men

specialty for women, it seems to be generally higher allowances of Ra. 250 to Ra. 500 and recognized that there ought to be particularly an allowance of Ra. 100 after fifteen years when one remembers how important it is to of approved service to those who do not get bring the influential class of women and mothers any of the other allowances. Except for the present to some sympathy with modern thought Director of Public Instruction, the limit of the prospect of a member of the Indian Educa tional Service is Re 1 500 a month, the average prospects being considerably less. There is no short service pension Schemes are on foot to improve the prospects of the service. Hitherto this service which is in reality one of the most important in the country has not been rightly estimated though its mombers are as a rule men of real culture. Hence the great difficulty of recruitment. The number of posts in this service in 1907 throughout India was 157 Additions have been made since then but it is clear that the Service is under staffed, if one considers the range and importance of its work. Hitherto higher educational work has been little appreciated in India, particularly by Englishmen. Now a days much is said of its importance but little done for those who carry it out

> At the head of all Educational departments in India at the seat of Government is the Member for Education who sits in the Vicercy s Executi e Council

- (b) Provincial Educational Service—In this service also are found principals and professors of colleges, headmasters and inspectors of schools, and in addition translators to Government and members engaged lu other exceptional posts. This service is composed of Indians and recruited in India the pay scheme being arranged on a much lower scale than that of the Indian Service in accordance than that of the IMMAN SerVOSS IN SOOMMANDS with the qualifications and the cheaper rates of living of natives of India The maximum pay is R8 700 the minimum pay R8, 200 Fhore is a general division between two branch es, collegiate and general.
- (c) Subordinate Educational Service.—The majority of this service are beadmasters (a few) secistant deputy inspectors and all the assistant masters in Government high and middle schools In Bengal a number of poorty paid teachers have been converted into a lower adbordings never the pay and prospects of this service are not good and much complaint is made of the inferior nature of the teaching in schools run by its members. som. A small number of personal allow 1907 the figures for this service stood at 6025 agos was arranged in 1896, when the service The maximum pay of this service is somewhere was re-targalised and received its title. There is about Rs. 400 The minimum pay used to are lower allowances of Rs. 200 to Rs. 250 be Rs. 30 but is now Rs. 40 per memers.

#### STATISTICAL RESULTS.

The statistical table of educational progress ta British India published for 1913-14 gives the following results

The grand total of pupils in all institutions (hedsating private institutions) has risen to 7,818,147 The largest increases occurred in Bangai (28,965) Madras (10,7768) the United Provinces (81,174) Bombay (41,332), and Bihar and Oriest (14,201).

The percentage of pupils in public institutions to children of school-going age (rectioned at 15 per cent. of the population) has risen in the case of boys to 29 6, in that of sirts to 5 &

The figures for higher institutions in 1913 14 were as follows --

Males Females Total 46 784 470 47 254 466 159 21 812 487 471 In colleges In High Schools In middle schools 542 425 41 218 588 641

Th total of those under primary institution in public and grivate schools (including primary departments of secondary schools other schools and private institutions where a vernacular is taught) was 6,456,594.
The number of these under training for the

profession of teaching has risen to 17190

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1913-14	No change.	9 111 4,158	3 163 47,940 219 796 19 8	1. 80. 897	1321 1721 37 198 3 4	326 182 45 631 371 813	489 956 88,24 81 96 4,57	26.22	66 8
1912-13	Yo chauge	108 8 689	46 899 197 230 187 1	1007	1,526 12,118 2,218	298 014 39,888 337 852	29 79 11 417 11 11 11 11 11 11 11 11 11 11 11 11 11	19 67 13 61	84,20 of B, 2,83 742.
1911-1-	} No change	11 101 8417	2 659 47 740 176,410 16 9	16	1 605 29 269 2 7 1	279 492   86 675 316 167	281 113 28 79 12 44 12 44	28.76 17.70	48 60.57 68-06 84.20 84.20 Includes an Emperial contribution of B. 2,83 742.
1910-11	97 813 10 992,007 8 982,880 19 974 956	11 98 3 321	2,270 44 898 164 061 16 6	16	1,244 26,174 2 4	257 482 32 186 289 618	346 910 18 63 12 11	15 20	60 57 choice an Emper
1000-10	No change	10 8 346	2 022 40 89 1 157 946 14-9	210g	1,007 28,809 2 2	815 728 80 996 876 717	18 61 12,80	34 43	45 83
1908-00	97 27	3408	1,860 74 971 149,542 19 8	318	914 22,6-2	226 502 27 282 1	302,576 17 66 12 48	88.15 11.98	
	Area in squary miles Population   Maic   Female   Female   Total Population   Total Popul	Public Institutions for males Number of airs ouleges Number of high schools* Number of pidnary schools	Male Scholars as Public Institutions in acts outsides in acts outsides in the matter outsides in primary schools in primary schools from the scholars in public institutions of schools from the public public institution of schools schools in male proministin of schools schools schools in the schools sc	Puble Institutions for ferrates furniser of arts colleges Number of high schools furniser of purasay schools	Franks Scholars in Proble Institutions in arts college: In high schools In high schools I rythers when the scholars in julit, millit I greatlike mit franksinkeling school schools	TOTAL SCHOLLES IN PUBL IN-THURING SCHOOLS.  TOTAL SCHOLLES IN PUBL IN-THURING SECTIONS.  Total	male and fun thousands of r ics	r com mangetjan r ands Todal Skryenditure from public funds From feet	Grand Of References

The number of pupils in technical schools has incremed to 12.751.

The number of schools for Europeans and the domiciled Community now stands at 37 075 The number of Mahomedan pupils amounts

to 1 108 218, of whom 4,956 are in colleges

#### Expenditure.

The total expenditure to 191314 was Ra. 10 02.28.9-7 an Increase of more than two crores of that of the preceding year. Of the total, roughly 550 lakhs are now met from public funds (against 407 in the preceding rear) or 367 lakks from provincial 147 Of the 452 lakes from private sources, tees contributed 185 lakhs

Among the larger provinces the highest expenditure was in Bengal 220 lakks

Principal developments -In the year 1912 13 the following additional allotments from Im notial funds were announced for education in permines and politically administered areas—
319 lakhs non recurring from the surplus revenue
of that year and 35 lakhs recurring from the The developments revenue of the year 1918-14 of the five preceding years have been described in the quinquennial review Compared with the figures for 1910-11 the increase during the past two years in pupils of public institutions has anounted to 18 4 per cent, and that in expanditure to 25 5 per cent

Among special features of the period are the establishment of a Faculty and the scheme for a college of Commerce in the Bombay Lni versity A generous gift of 10 laklus to the University of Calcutta was made by Dr Rash Physics of the committee worked out a scheme for the Davis University a project which has subsequently received the general approval of the Secretary of State The reports on education in the various provinces show that in Madras the rules for grant in aid have been made more elastic and the amount given se grant-in-aid has increased by nearly 5 lakhs In other provinces improvements have been made in secondary education and in the Born bay Presidency the pay of assistant teachers in Government secondary schools has been increatoverament secondary schools has been increa-sed. The pay of primary school teachers has likewise been improved in the Punjab graded scales of selactes from Bs 12 to Bs 30 a month are being generally introduced in Bhar and Oriss the stipends paid to aided school teachers have been regulated in the Central Provinces a sum has been earmarked for render ing pensionable the pay of all masters drawing Mahammadan education the foundation of an Islamia College at Peshawar has been conspi

cusus. A committee considered the foundation of a Technological Institute in Calcutta. Other or a reconception instance in Carimon. Oscar-important committees deliberated during the period on primary education the education of Muhammadans and other important subjects.

It should be observed that the Statistical tables differ from those given last year in the new arrangement necessitated by the re-arrangement of the provinces of Bengal and Bihar and Origes.

#### Recent Developments.

The main developments of the last and of immediately preceding years have been describ ed in the resolution which appeared in the Gazetic of India published on the 22nd February 1918, which also laid down the policy of the Govern ment of India The year witnessed the assertion at the Imperial Durbar by com mand of His West Gracious Majesty the King witnessed the Emperor of the predominant claims of edu cational advancement, the announcement of a recurring Imperial grant of 50 lakes for the promotion of truly popular education, and the high expression of his hopes and wishes for the expansion and improvement of education delivered by His Majorty the King Emperor in graciously receiving an address presented by the Calcutta University In addition to the recurring grant of 50 lakhs a recurring grant of 10 lakhs was sanctioned for university and higher education and a non recurring grant of 65 lakhs was also made There has been expansion in expenditum accompanied by an increase of those under instruction

Other features of the year have been the collection of materials for the preparation of extensive schemes for the spread of elementary education, and in certain provinces, for the improvement of secondary education growth of new ideas regarding university teaching which has resulted in the proposal for at teaching and residential university at Decae and Benevos and the establishment of Professorships Readerships and Lectureships in Universities like these of Calcutta and Bombay the governous gifte of Sir f N Palit and Dr Bash Behari chose to the University of Cal cutta the creation of a department of industries at Madras as a portion of the scheme of industries at Madras as a portion of the scheme of industrial training and development the samutioning of an industrial relieme for the Central Provinces the institution of a College of commerce in Bombay an inquiry carried out by Colonel Atkinson and Mr. Dawson into the question of bringing technical institutions into closer truth with the employers of labour the institution of proposals for an Oriental Research Institute and the conference held in July 1912 on the education of the dorablest communic. community

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Statement	
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	1907-03	1998 09	1909-10	17-0161	71-1141	
Ares in squate miles  Regulation   Female	286 738	to change	2.16.738 6.141.301 7.913.604 12,057.906	2.40 939 6 187,484 5 981 728 12 11, 217	) to change	No chángo.
1002st Justications for Hales Number of arts calleges Anaber of their schools	5.11.25	4.5	E #90.	1,32	20 30 40 40 40 40 40 40 40 40 40 40 40 40 40	2,47 5,046
Numer of primary server.  Numer of primary server.  In arts colleges.  In high server's colleges.  In france server.  Engines server.  Engines server.  Engines server.  Engines server.	148 8 895 136 687		261 10.368 1_1.877	10 034 125,551 20 9	338 10,888 126 877 21 8	14 844 143,422 24 5
thans to mate population of school-south up Public Institutions for Festales Number of acts colleges Number of high schools	- 0 9 919	- G 19	_ <u> </u>	11 855	13	14 599
Numer to pluary sensors  Toutle Scholars to Public Institutions  In arts objects  In light schools  Englisched Schools  Englisched Schools  Engringen of Jensel schools  Foremare of Jensel schools  Foremare of Jensel schools	1683	13 1 604 04 779 9 1	17 1 374 5 291 8 1	25.1.0 25.1.0 4.0.8 4.0.8	2 440 2 440 37 479	7 2,811 10,824 10,924
tone to female population of school-going age. Total School-going in highly list in the in a		19, 862	198 120	- 194,401	202 108	227 085
Total (Total SOHOLARS (both make and Comals)	70 359 200 988 483 211	262 968 438 973	268 97T	270 810	449 693	\$24 085 \$04 928
inditutions. From provincial revenues From food thata	17.45	17 08	16 71 4 08 3 48	18 08 4 4 82 5 68	26. 15.4.4.5. 88.5.	36 72 (6) 5 67 (b) 4 47
From muncipal tunus Total Expendituse from public funds From feet From other sources	10 32 4 51		14.53	857.7 88.3.7	16,53	18.86 18.20 2.20 23.20
GRAND TOTAL OF EXPENDITURE	39 31	43 71	43 68	47.37	02 20	
(e) Inchedes Re. 72.837 Deling provincial contribution to Infactor Ocea Fund. (i) Inchedes Rs 57.772 Deling provincial contribution to Vunicipalities.	scatribution to Di	istrict Orfs Fund,		In lude also ver	* In lude also vernacular high schools.	એ

Statement of Educational Pro	gress in A	BSAM	
	1911 12	1912 19	1918 14.
Area in square miles	01 471 3 638 287	No change	Wo shoom
Population   Malu	3 421,570	10 casage	No change
TOTAL POPULATION	7 059 85"		ļ
į	1 039 00	\ <del></del>	ļ
Pulle Institutions for Males	£		9
Number of arts colleges Number of high schools Number of primary schools	27 3 460	2 27 3 584	29 29 780
Male Scholars in Public Institutions			
In arts colleges	<b>29</b> 5	380	441
In high schools	8 723	98.0	11 186
In primary schools	1°2,1 )1	1 38,238	150 584
Percentage of male wholers in public institutions to make population of school-going age	29 1	20.8	7 ~B
Public Institutions for Females			
Number of arts colleges Number of high schools	1	2	) 2
Number of primary schools	242	2.6	300
Female Scholars in Public Institutions	·		·
In arts solleges			1
In high schools	201	35,2	4117
In primary schools	16,936	17 84a	20 005
Percentage of Amale scholars in public institutions to temple population of school going age	3 5.	3 7	4 -
Male	159 101	108 364	184,381
TOTAL SCHOLARS in public institutions. {	17 931	19 095	22,74
ጥ ተፈጠ	777 022	187 449	208,1%
TGTAL SCHOLARS (both male and finale) in all institutions	182,112	194 288	21.5 14
Expenditure (in thousands of rupees)	<u></u>		
From provincial revenues	- 587	7 71	10 -
From local funds	5 03	5 82	62
From municipal funds	14	18	<b>1</b> 3
Total Expanditure from public funds	11 04	13 69	1, 3
From Jess	2,79	3 02	9,5
From other sources	2,20	2,33	2,4
CRAND TOTAL OF EXPENDITURE	18,00	19 04	23,2

Statement of Educational Progress in CENTRAL PROVINCES and BERAR.

	1908-03	1909-10	1910-11	1911-12	1919-13	1613-14.
Atea in square miles Population   Make   Female	) No change	Xo change	130 174 7 764 777 7 882 712 10 597 489	117 935 7 766 007 7 833 993 15 600 000	No change	Yo shange
Public Incidence for Mater. Number of after caleges Mumber of high schools * Mumber of primary schools	S 4 33	3 85 3 019	808 808	8. 3.195	4 89 9471	4 64 8,846
Male Sobolars in Public Institutions In arts colleges In they schools In primary schools In primary schools Continued of male schools in public institution female or male schools	2 457 2 8637 104 526 4 25 4	479 8 (69 212 857 26 2	3 236 3 236 216 760 23 1	808 8 102 24 855 8 455	705 8 547 248,439 25 9	860 8,054 14,64 8,75 8,75
Pucker Indications for Females [Tumber of arts colleges [Fumber of high schools [Fumber of primary schools	2887	301	* 108	306	788	350
Fencia Scholars in Public Institutions In acts solvings In high schools In primary schools Percentage of fermal scholars in public Institutional to fermal solving acc	20 21 250 2 2 5	24 28 769	28 28 24 2 4	22 24 2 6 3 4	90 839 2 8	48 33,051 3 1
YOTAL SCHOLARS in public lowercutions. { Female, Total	25 602	266 850	28 4.3	282 267 90 729 81 8 686	302,077	1, 900 1, 900
FORAL SCHOLARS (both made and female) in all implitutions.  Expenditute (in themseads of ripes)  From recordings	276 700	296 343	897 620	818,206	3945,246	8
	200 200 200 200 200 200 200 200 200 200	10 88 10 88 11 88 11 88	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2011 2014 2014 2014 2014 2014 2014 2014	11.08.0 10.08.	31 50 31 50 31 50 8 91 8 91 8 80
COM SERVE ENERGY DETAIL OF EXPERIENCES	28 06	28,82 28,83	30,85	20 4 20 45	37.88	17

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	1908-09	1909-10	11-01-1	21-1101	1912-18	1918-14
Area in square miles Population Fondio Population Total Population	> o liang	Уо : Выяве	13 198 1 182 10. 1 014 831 2,196 937	} >> : hune	No change	Vo change
Public Instated was for Mater Number of arts colleges Number of high schools Number of the Section of	_ 17 4°	12 13 287	112	1.7	112	4 12 8
Male Scholars in Public Institutions In arts colleges In high schools In primary schools Percentage of male scholars n public Institutions for servering of male scholars n proble Institutions for male population of schools 36	3 817 11 41 101	10 4,265 12,009 11 2	4486 13034 11 8	34. 14. 13.1 13.1	17 17 16 809 15 4	77 28, 387 38 7
Takko Institutukona for Fondira Number of Institutukona Number of Institutukona Number of Institutukona Number of Institutukona	-3	3 <sup> </sup>	22	27	প্ল	80
In actional larges In high schools In primary schools Percentage of fennale scholars in public rectifu Percentage of fennale scholars in public rectifu Fennal of mails remainful for Gethool going age Fennal of mails remainful for Gethool going age	1 911	1 5 6 1 3	1775	1925 1.0	2014	2,230 1, 7
TOTAL SOROIARS in public institutions   Fremain	17 630 1 605 19 235	19 689	20 119	23 236 2 247 26 483 24 483	27 344 3,896 19 740	26 124 2 610 35 743 44 445
Total Soffices (both male and remain; in all Intelliations.  Expenditure (in thousands of rupeet) From provincial revenues From food finds.	\$ 24	6. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18		\$ 1.5 \$ 1.5	+ + + 1.06 1.76	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
From numbries finds Total Expenditure from public famils From feet control From other control From other control	40 40 61 61 3.19	25. 25. 31. 31. 31. 31.	38 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	85 5 4 8 5 5 8 8 6 7 8	650 65 65 05 0 05 0 05	(a) 5,88 82,8 8,58 10 26
• Imperial Revenues. † Including Rs. 68 215 from Imperial Ranenum	-	In lading Rs80, 1 60 and 1 04 in thousands respectively from Imperial grants $\langle \sigma \rangle$ Including Rs. 2.44 (in thousands) from Imperial grants	0 and 1 04 in the	usands respective	Jy from Imperial Imperial grant	l grante e

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1	1015-14	No change	188 88	928 4 966 76 9	<b>c</b>	2.184	7.880 1.894	8 030	17. 20. 25.	91
	1012-18	Fro change	- <b>3</b>	201 4,523 43.6	وب	1 04.3	4 90%	7.040	138	32.
	1911–12	1.682 97 270 77 697 174 976	- 8	308 3 970 29 7	9	1 7.3 16.0	1 691	6 203	දි ඩි <sub>ය</sub> :	200 P.C.
ess in COORC	1910-11	No change	81	208 7.7.21 7.7.21	æ	1 721 15 0	4 000	6 640	61 12 1	45 12 8 9 9 9
Statement of Educational Progress in COORC.	1806-10	No change	- 3	24. 88.88 27.28		1 558 18 6	1 644	6 830	188	12 12 00
ement of Edu	1908-09	} %o change	69.1	288 8 427 60 7	j rc	14-1 12-0	7869 1 447	5.816	2 I	38 12 8
Staf		Ares in square miles Population   Male Population   Female Torst. Population	Pubbic Institutions for Males Number of arts colleges Number of Inja estoods Number of primary schools	Male Scholars in Pridic Institutions In arts colleges In high ecticods In parmary schools I permary schools to permary schools to present on the scholars as public institutions to male repulsation of school school schools	Public Institutions for Veniales Number of aris colleges Number of high services Number of primary schools	Freads Stockers in Public Institutions In arts colleges In high schools In permay schools Percentage of female scholars in public institu	TOTAL SCHOLARS In public institutions. {   Fernal	Total Scholars (both mak and femule) in all implifiations	Reproducts (sa thousaids of repers) I tom provincial revenues Tran foat funda	Total Repeaditure from public funds Trom for from circa sources From circa sources Grans Total, or inversifiere

# The Benares Hindu University.

There were originally three distinct move measts in favour of funding a Central Hindu University in the first place in 1904, the first place in 1904, the first Pardit Madan Mohan Makevya made proposals which were confirmed and appropried by the Sanatan Dharma Mahasabha or Con by the Sanatan Dharma Mahasabha or Congress of Hindu Beligion which met at Allahabad in January 1906. About that time Mra Annie Recant also put forward the idea of establishing a University at Benares and applied to the Government for a charter in the third place a number of Hindu gentlemen under the guidance of the Hon Maharasa Bir Ramashwar Simoh Bahadar volument. Rameshwar Singh Bahadur KCIH of Dar hhanga were considering the possibilities of starting an educational institution at Benares The leaders of these movements soon recognised that a union of forces was essential, and in April 1911 Mrs Beaant and the Hon Pandit Madan Mohan Malaviya mot at Allahabad to consider possible lines of agreement. This meeting was followed shortly afterwards by another, when it was agreed that the first gov erning body should consist of representatives of the Hindu community Mrs Beant and representative trustees of the Central Hirdu College and also that the Theological faculty should be entirely in the hands of Hindus.
At the same time Mrs Becant agreed to with
draw her petition for a charter which was then before the Secretary of State At subsequent meetings presided over by the Maharaja Baha dur of Darbhanga a draft constitution was arranged and it was decided to want upon the arranged and it was decided to wait upon the From Rember for Education and lay before him the provisional scheme. In the mean time, deputations for the collection of funds were instituted and these visited the leading control in India. The result was most active manded not vary from India, but from Indians far affold as Homeo Mauritius and South Africa and besides Hindus of all denomina troop and stations in life some Mahomedans and a few Europeans, official as well as un official, have promised to contribute

Government Approved —In October 1911
All Harcourt Butler wrote a very sympathetic letter signifying the approval of Government to the scheme and mdicating the conditions hald down by the Government of India —

d down by the Government of India —

The Hindos should approach Government in a body like the Mahomedans

A strong efficient and financially sound college with an adequate European staff should be the basis of the scheme of the University should differ from exist ing Indian Universities by being a started and supported in the college of the college

teaching and residential matitution and by offering religious instruction

4 The movement should be entirely edu cational

. There should be the same measure of Government supervision as in the case of the proposed University at Aligarh

It was subsequently added that a sum of Bs 50,00,000 must be collected, but the capital said value of the properties treasferred in trust and the perpetual grants made by the Maharajas of Jodhpur Kasharir and Rikaan may be included

Objects of the University — I have may be said to be as follows —

- To promote the study of the Hindu Shas true and of Sanskrit literature generally as a mean of preserving and popular-ising the best thoughts and culture of the Hindun and all that was good and great in the arcsent civilisation of India
- 2 To promote learning and research gene-rally in arts and science in all branches
- 8 To advance and diffuse such scientific. technical and professional knowledge combined with the necessary practical training as is best calculated to promote indigerous industries and develop the material resources of the country
- 4 To promote the building up of character in youth by making religion and ethics an integral part of education

Proposed Faculties—In a letter to Sir Harcourt Butler the Maharaja Bahadur of Darbhanga has given an outline of the proposed faculties which will be those of Oriental studies faculties which will be those of Oriental studies. Theology Arts Sciences (Pure and Applied) and Law The main objects of the first named will be to foster the tudy of Sanskrit and its interature. It is proposed to place in charge of the work a European Sanskrit scholar who will be assisted by Indian professors and panding of the work of the control dits of the old class. The faculties of Arts and Science will work for the present on the lines laid down by the existing universities. The study of some special branch of technical education will be best inaugurated under the beading Applied Science which will be expanded into a Faculty of Technology in due course. The Faculty of Law will specialise in the Hindu Law and its study from original sources. It is hoped also that in course of tune there will be Faculties or Colleges of Agriculture, Com merce, Medicine Surgery and other branches of knowledge such as Music and the Fine Arts

Proposed constitution —In July 1914 8ir Harcourt Butler addressed a letter to the Maha rajah of Darbhangs, in which he stated that the Government of India and the Secretary of State had come to the conclusion that the best form of constitution would be to constitute the Lieutenant-Governor of the United Pro vinces ex officio Chancellor of the University with certain opportunities for giving advice and certain powers of intervention and control The Hindu University, he wrote though not empowered to smillate colleges from outside will be imperial in the sense that subject to regulations, it will admit students from all parts of India on the other hand it will be localized in or by Benares There will be obvious advantages in having as Chancellor of bovious actuated in insting as combined to the University the Licutement-Governor of the province who is also Chancellor of the Aliahabad University and who will be able to help to core late the work between the two, to secure them corresponding advantages and to foster a spirit of healthy to operation. Moreover such a construction is in second with the general policy of decentralization which is now pursued by the Government of India."

The powers which, in the oninion of Government, it is necessary to reserve to the Chancellor suggested by the University Committee, others were emergency powers which might never be exercised. The principle underlying them all is that, in the interest of the rising generation and the parents, the Government must be in co-operation with University and in a position to help it affectively and secure sound finance The interest of the Government and the students and their parents in this matter are necessarily identical

In concluding the letter referred to above Sir Harronert Butler said — In order to meet the sentiment of the subscribers it has been conceded that the University shall be called the Benares Hindu University it will have or eligious test and will be open to students of all denominations as well as Hindus Hindus theological teaching and observances will not be compulsory for any but Hindus Is will also be a teaching and readential university. The terms mentioned above represent the conditions the acceptance of which is a necessry precedent to the elaboration of any detailed scheme

The Bill Passed.
On the basis of these principles further discussion took place between the Eddcation Member of the Government of India and the promoters of the Cultivarity and by degrees complete agreement was reached. A Bill embodying this agreement was introduced into the Imperial Legislative Council in 1915 and passed at the closing resion of the Council For a summary of this debate the reader is referred to the section which records the work of The Imperial Legislative Council (q v) The cardinal features of the Art are as follows —

religious instruction and examination in Hudu an annual contribution of a lash of rupers, religious instruction and examination in Hudu an annual contribution of a lash of rupers, religiou only this instruction is compulsory; it is expected that the foundation stone of the in the case of Hindus Special arrangements new Culversity buildings will be laid by the are to be made for the religious Instruction vectory in February 1916

of Jain or 57th students The General of India for the time being shall be the Lord Rector, the Lieutenant-Covernor for the time being of the United Provinces of Agra and outh shall be the Visitor who has the power to inspect the University and its colleges and to annul the proceedings of the University if they are found to be not in conformity with if they are found to be not in conformity with
this Act Statutes and Regulations The
authorities and Officers of the University
are named to be (1) The Chancellor (2) The
Pro-Chancellor (3) The Vivo Chancellor (6) The
Pro-Vice Chancellor (5) The Court, (6) The
Council (7) The Senate (8) The Syndicate
(9) The Faculties and their Deans (10) The
Registrar and (11) The Treasurer In admissirative affairs of the University the Court
et the Autonom Conventor before and the Conte is the supreme governing body and has the power to review the acts of the Senate The executive body of the Court is called the Council The Senate is the scademic body of which the executive body is called the Syndicate To meet the recurring charges a permanent endowment or lifty lacs of rupees is to be made and invested in authorised securities. The degrees diplomas certificates and other academic distinctions granted by the University are to have the same recognition at the hands of Government as those granted by the existing Indian Universities The formation and scope of Statutes and Regulations of the University are provided with minute detail. The Governor depend in Council has extensive power to act in cases of emergency or the removal of any member of the test hing staff the appointment of a certain (xaminer and the raising of the scale of remuneration of the staff. The Uni versity grows out of the present Hindu Univer sty Bodety which is now dissolved and all its property rights, powers and privileges are to vest in the Benarcs Hindu University

It establishes and incorporates a teaching It will be seen from the above that the Act and residential Hindu University at Benares subpliates that the University shall commence First of all, it creates a corporation sole of the with an endowment of fitty lakes of rupeees University The portain of the University Sums aggregating approximately Re 82 lakis are open to persons of all classes castes and have been promised, and Re 50 lakis paid. The creeds but provesion shall be made for Government of India have undertaken to make

## The Mahomedan University.

The movement in favour of transforming can us His Highmess was able to secure promises. The Mahomedan Anglo-Oriental College at aggregating some thirty lakins of rupees A Aligarh into a teaching and residential Uni draft constitution was drawn up and a commit rozz which they seem to have fallen of late years Some time ago it was observed in a government report that the backwardness in education on the part of Mahomedans was due partly to poverty, partly to indifference and partly to their educational wants not being the same as those of the remainder of the population amongst whom they live in this year's report, however it is stated that a romarkable awakening on the part of Maho needans to this direction has been witnessed during the last decade when the total number of pupils under instruction in all classes of implements rose by nearly 60 per cent. On the other hand in the matter of higher educa the other hand in the inletter of ingrer states tion their numbers remain well below that proportion notwithstanding the large relative increase It was the aim of Sir Syed Ahmed Khan, R.OSI, years ago to place the benefits of a liberal education within the reach of the Mahomedan community and in 1875 a school manomedian community and in 100 m scool was opened which three years later was converted into the Aligarh College Under the inspiring influence of Mr Beck and of Mr (now Bir) Theodore Morkon great strides have (now Bir) Theodore Morkon great strides have been made The college is now affinished to the Alkahabad University for the First Arks and B.A. for the B Sc in mathematics, chemistry and physics, for the M. Sc in mathematics and chemistry and D Sc in mathematics and for the M. A in English, Arabic Persua Sanskrit, History, Philasophy Political Recognity and Mathematics, the students of the college has been intended in the theology college are also instructed in the theology and falth of Islam.

State of the Project.—His Highness the Age Khan, the foremost Indian Mahomedan, had for some time been walting until the time was ripe to make an appeal for funds for the University which he had constantly held before his co-religionists as the educational goal to ns co-religiousnes as the conceived wards which they should strive. He conceived that the moment had arrived in 1911 when his Majesty the King Emperor visited Indu to announce in person his coronation to his Indian people. As the result of a spirited appeal followed by a very netwo personal

the Mahomedan Angio-Oriental College at laggregating some thirty lakes of rupees A Aligarh into a teaching and residential Uni draft constitution was drawn up and a consult rensity was started as early as the end of last constitution was not approved by the theoretary it was keped that the foundation of such an institution would awaken among of State and on the question of the right of Mahomedans the memory of their old seats of learning and prove an incentive to them in tence of opinion. Government laid down, as in the inture to regain the intellectual eminence; the case of the proposed Hindu University. that the new university should not have the power of affiliating Mostern institutions in other parts of India Thereafter the project lapsed In 1915 when the Hindu University movement crystallised in the Hindu University Act for ther stone were taken to come to an agreement with the Government of India. The Govern ment however laid down at once that the princi ples governing the constitution of the Hindu Uni versity would be applied to all other institutions of a his character and that they were not of a fine character and that they were not prepared to consider any proposals, in to receive any deputation, which did not accept this governing rule. On October 18th 1915 a meeting of the Moslem University Association meeting of the queen university association was held at aligned under the presidency of the Raja of Mahmudabad when it was proposed that the nos innig recommends to the Modern Friverstv Fundation committee the arceptance of the Modern University on the line of the Huda University I'h, reso lution was declared to have been carned but this was subsequently disputed and an official this was subsequently objected and an official report of the proceedings was bested. It is evident that whatever transpired at the Alagach inceeting a large number of Indian Moslesons are not prepared to see up a constitution for their University similar to that of the Hindu University and that there is no prospect of agreement. Nor is then the slightest prospect that the Organization of their content to the content of the of the Government of India agreeing to any markedly different consisted on the property of the University materialising an their fore exceedingly remote it is a curious equal that the Hindu University which was a poor so ond in the field should have received that are been been proceeding with the necessary buildings whilst the Moslem University started long before should be indefinitely held up. It has been proposed that the interest on the started of the started o has been proposed that the interest on the funds subscribed should be divoted to other edmontumal objects such as scholarships but this is opposed by some of the subscribers who maintain that they subscribed to a University and if the funds are not to be divoted to this purpose that should be returned to the

### Local Self-Government.

Throughout the greater part of India, the village Autonomy—Tho Indian villages constitutes the primary territorial unit formerly possessed a large degree of local au of Government organisation and from the tonomy since the native dynastics and their villages are built up the larger administrative local representatives dd not as a rule, concern cuttities—thanks, sub-dynastics between the individuo cuttivators but

The typical Indian village has its central residential arte with an open space for a pond and a cattle stand. Stretching around this nucleus lie the village lands, consisting of a cultivated area and (very often) grounds for grazing and wood-cutting. The inhabitants of surfu a village pass their life in the midst of these simple surroundings, welded together in a little community with its own organisation and government which differ in character in the various types of villages, its body of detailed customary rules and its little staff of functionaries, artisans and traders. It should be noted however that in certain portions of India, e g in the greater part of Assam, in Eastern Bengal, and on the west coast of the Madras Presidency, the village in small collections of houses or in separate homestrads —(Guetteer of Isaka.)

The villages above described fall under two main classes, viz.,—

Types of Villages — (1) The severalty or raisewari village, which is the prevalent torn outside Northern India Here the revenue is assessed on individual cultivators. There is no joint responsibility among the villagers, though some of the non cultivated lands may be set apart for a common purpose such as grazing and waste land have be brought under the plough only with the permission of the Revenue authorities and on perment of assessment. The village government vects in a hereditary head man, known by an old vernacular name, such as patel or reids, who is responsible for law and order and for the collection of the Government revenue. He represents the primitive headship of the tribe or olan by which the village was reignally settled

(2) The joint or laudlord village the type prevalent in the United Provinces the Punjab and the Fronter Province. Here the revenue was formenly assessed on the village as a whole, the incidence being distributed by the body of superior proprietors, and a certain amount of collective responsibility still, as a rule, remains The village site is owned by the proprietary body who allow realdences to the tenantry artisans, traders and others. The waste land is allotted to the village and if wanted for cultivation is partitioned among the shareholders. The village overnment was oughnally by the punchased or group of heads of superior families. In later times one or more beadmen have been added to the organisation to represent the village in its dealings with the local authorities but the artificial character of this appointment, as compared with that which obtains it a raivatuari village, its evidenced by the title of its holder which is generally tomborder a veruscular derivative of which the well known description in Sir H. Maine's Village Communities is alone applicable, and here the co-proprietors are in sense in local citizenty with the bulk of the village population as tenants or labourers under them.

Village Autonomy—The Indian villages formedly possessed a large degree of local autonomy since the native dynastics and their local representatives did not as a rule, concern themselves with the individual entityators but regarded the village as a whole, or some large landholder as responsible for the payment of the Government revenues, and the maintenance of local order. This autonomy has now disappeared owing to the establishment of local, civil and criminal courts, the present revenue and podice organization, the increase of communications, the growth of individualism, and the operation of the individual regulators system, which is extending even in the north of India Nevertheless the village romains the first unit of administration the principal village functionaries—the headman the accountant, and the village watchman—are largely utilized and paid by Government and there is still a certain amount of common village feeling and interests

Punchayets—For some years there was an active propaganda in favour of reviving the village council—irrbunal, or Puschaye and the Decembralisation Commussion of 1908 made the following special recommendations—

While therefore we desire the development of a punchayet system, and consider that the objections urged thereto are far from Insur mountable we recognise that such a system can only be gradually and tentatively applied, and that it is impossible to suggest any uniform and definite method of procedure. We think that a commencement should be made by giving certain limited powers to Panchayets in those villages in which circumstances are most favour able by reason of homogeneity natural intelligence and freedom from internal fends. These powers mught be increased gradually as results warrant, and with success here it will become easier to suply the system in other villages. Such a policy which must be the work of many years will require great care and ideocetion between the circumstances of different villages and there is a considerable consensus of opinion that this new departure should be made under the special guidance of sympathetic officers.

This is, however still mainly a question of interpretable to the suppose at its unnecessary to refer at greater length to the subject of village self-government. An Act was pas ed in 1912 to provide for the establishment of punckays, in the Punjab, but it was contemplated that the areas for which these bodies would be established would be larger than villages, and their functions are limited to the disposal of patry civil suits. In the Punjab it may be mentioned village self government survives to a considerable extent, on a basis of ension, and the desirability of bringing it under statu tory regulation has been questioned.

tory regulation has been questioned.

Municipalities—The Presidency towns had some form of municipal administration, first under livyal Charters and later under statute, from comparatively early times but outside of them there was practically no attempt at municipal legislation before 1842. An Act passed in that year for Bengal which was practically inoperative, was followed in 1850 by an Act applying to the whole of India Under

this Act and subsequent Provincial Acts a large number of numbelpalities was formed in all provinces. The Acts provided for the appalatement of commissioners to manage muni apparament of communication to manage manager of various copal affairs, and authorized the levy of various taxes, but in most Provinces the commissioners were all nominated, and from the point of view of self-government these Acts did not proceed har It was not until after 1870 that much progreen was made. Lord Mayo's Government in their Resolution of that year infraducing the system of provincial finance, referred to the neonetry of taking further steps to tring local interest and supervision to beer on the management of funds devoted to education sanitation. medical charity, and local public works. New Windighal Acts were passed for the various Provinces between 1871 and 1874 which, among revenues expect 1071 and 1072 which, among other things, extended the elective principle but only in the Central Provinces was popular representation generally and successfully introduced. In 1881, E. Lord, Edpon's Government issued orders which had the effect of greatly extending the principle of local self-government.

Acts were passed in 1883-4 that greatly situred the constitution, powers, and functions of muni-cipal bodies, a wide extension being given to the elective system, while independence and responsibility were conferred on the committees of many towns by permitting them to elect a private citizen as chairman. Arrangements were made also to increase municipal resources and financial responsibility some items of provincial revenue suited to and capable of develowment under local management being transferred, with a proportionate amount of provincial expanditure, for local objects. The general principles thus laid down have continued to govern the administration of municipalities down to the administration of municipanties nown to the present day. In several Provinces there are besides municipalities "notified areas, i. e., small forwar which are not fit for full municipal lastifutions, but to which parts of the Municipal Acts are applied, their sfairn being admini stered by nominated committees. These are to be regarded as embryo municipalities.

Lacal Boards.—The establishment of boards for dealing with local arises in a relatively recent development. No such boards existed in 1888, though some send voluntary funds for local improvements had been related in Madras and Bombey while in Bengel and the United Provinces consultative committees assigned the district officers in the management of funds devoted to local schools, roads and dispensance. The system of raising cesses on land or purposes of this description was introduced by logislation in Madras and Bombey between 1865 and 1899 in the case of Bombey nominational continuous and committees were to administer the proceeds of the cess. The year 1871 saw a wide development of legislation for local administrative purposes, partly due to growing needs and partly the result of the financial decentralisation scheme of Local Mayos Government, wastes aboat being passed in different Provinces participal for the levy of raise and the constitution of board bodies, in some cases with an elected element, to administer the funds. The whole spikes of Local Ripan's Government. Under the description was reorganised in accordance with the passing of Local Ripan's Government. Under the description was to be replaced by a system of boards.

extending all over the country. The lowest administrative unit was to be small enough to seeme local knowledge and interest on the part of each member of the beard, and the various minor boards of the district were to be under the control of a general district board, and the ment of measures common to all. The non official element was to preponderate, and the elective principle was to be recognised, as in the case of municipalities, while the resources and financial responsibilities of the boards were to be increased by trainferring items of provincial revenue and expenditure. It was, however recognised that conditions were not sufficiently advanced or uniform to permit of one general system being imposed in all provinces, and a large discretion was left to Local Governments. The systems introduced in different parts of India by the Acts of 1839 5 (most of which are still in force) consequently varied greatly

Mofmasil Municipalities.—The total number of municipalities has aftered little for many years past. New municipalities have been formed from time to time, but there have also been removals from the list. There was indeed a rather marked decrease according to the last decomial review (1902 12) and the number in 1811 12 was actually less than it was thirty years earlier. This result was brought about to the checkion to 'notified areas of a considerable number of the smaller municipalities in the Fungish and United Provinces. The figures showing the constitution of the municipalities call for little comment. Taking them as a whole the proportion of elected members was in 1911 12 rather more than a half, whereas in 1901-02 it was slightly less. The proportions of non officials and Indians, already high in 1901 also increased during the decade Elected members are in the majority in the cities of Sombay Madras and Rangoon and in Bengal (excluding Calcutte) Bihar and Orisas, the United Pro-vinces, and the Central Provinces in the North West Frontier Province and Baluchistan, on the other hand, there are no elected members, and in Burma they form a small minority Non officials outnumber officials everywhere and Indians outnumber Europeans to an even greater degree, except in Rangoon Taking the muni-cipalities individually some of the commissioners are elected in the great majority of cases presentation in the larger municipalities is in general by wards or classes of the community or both Voters must be residents not below or both vocas must be residents not below a specified age, and property or status qualifies tions are generally laid down. The Chairman or President of the Municipal Corporation is some times nominated under the orders of the Local Government, but more often chosen by the com missioners from among themselves. The only provinces in which there has been in the past a provinces in which there has been in the plast as large proportion of elected non-official chairman are Madras, the Central Provinces, and the two Bengais, but Bombay has now to be added to the first, in view of the changes made in that province in the deading years of the decade. Various provinces exist as to the exercise of control by Government, particularly as regards finance and appointments. No loans can be reised without Government sanotion, and generally appearing municipal budgets, and alterations in taxation require the sandron of the Local

Government or of a Commissioner. Proposals for giving municipal committees a larger degree of independence were put forward by the Decea traffaction Commission, and some action of these three has been taken. Government may provide for the performance of any duty which the commissioners neglect, and may surpend them in case of incompetence, default, or abuse of nowers.

Municipal Revenues.—In the provinces in which octrol is levied generally it is the most important source of income. The octrol duties have admitted disadvantages but they are familiar through long usage to the inhabit tants of the North and West of India. The possibility of abolishing them was under consideration during the last decade and it was decided in the United Provinces to take this step in many municipalities but the alternative of direct taxition is not a popular one Precarations are taken to limit the tax to articles actually continued in a town, and to prevent it from seconding a transit duty. The list of dutiable articles contains in each case only staple articles of local consumption and goods in transit are allowed to pass in bond or receive a redund of arc the most important class of goods subject to octrol transition.

incidence of Taxation.—A tax on houses and lands is levted to some extent in all provinces and is the main source of municipal revenue where there is no octrol. Taxes on processions and trades and on animals and vehicles are generally levted as also is a water rate in the large towns that have been

furnished with water works. Tolls on reads and ferries and lighting and conservancy rates contribute to the receipts in most provinces. The average incidence of municipal tearstien per head of municipal population in 1911 12, for British India, as a whole, was Ra. 2 85 Leaving out of account the Presidency towns, where the figures are higher the provincial averages ranged from Rs. 8 08 in the North West Frontier Province and Rs. 2 38 in the Punjab to Rs. 1 35 in Madras and Rs. 1 02 in Punjab to Rs. 1 35 in Madras and Rs. 1 02 in Coorg Other sources of revenue are numicipal lands and buildings, conservancy receipts (other than the rates) educational and modical foes, receipts from markets and slaughter houses (a very important item in Burma) and interest on Investments

Municipal Functions—Municipal functions are classified under the heads of public safety health, convenience and instruction. Within these heads the duties are many and varied Expenditure spart from that on general administration and collection which amounts to something less than 10 per cent of the total is similarly classified. The principal normal functions of municipalities now are the construction upkeep and lighting of streets and roads and the provision and maintenance of public and municipal buildings the preservation of the public health principally with refer ence to the provision of medical pelled vaculation, sanitation drainage and water-supply and measures against policimies and constitunity principally with reference to the provision of medical pelled vaculation particularly primary education. Morey is raised by loan for water supply and drainage schemes, the cost of which is too large to be defrayed from ordinary recurses.

#### THE PRESIDENCY TOWNS

The corporations of the Presidency towns occupy a special position and are constituted under special Acts.

Calcutta :—The municipal administration of Calcutta is regulated by the Calcutta Municipal Act of 1899 which replaced an Act of 1888 the working of which had not been altogether satisfactory. The Corporation, as remodeled by the Act of 1889 consists of a Charman appointed by the local Government and fifty commissioners, half of whom are elected at televantel werd electrons while the remember of Commerce and the Calcutta Trades Association, two by the Port Commissioners, and fifteen by the local Government. The Act also constitutes a smaller body the General Commissioners, four elected by the ward commissioners, four elected by the ward commissioners, four elected by the other commissioners, four elected by the other commissioners four elected by the other commissioners four elected by the other commissioners.

The entire executive power is vested in the Chairman, to be executed subject to the approval or smedium of the Corporation or General Committee, whenever this is expressly directed in the Act. To the Corporation are reserved the right of fixing the rates of taxtion and such general functions as can be efficiently performed by a large body, while the General Committee stands between the defiberative and executive

authorities, and deals with those matters that are ill adapted for discussion by the whole Corporation but to important to be left to the disposal of the Chairman slone. Power is reserved to the local Government to require the municipal authorities to take action in certain circumstances and their manetion is required to large projects.

Bombay—The municipal corporation of Bombay which formed the model for the new Calcutta constitution dates in its main features from 18°T and continues to be regulated by the Act of 1888 as amended Some important changes were made by the City of Bombay Police Charges Act of 1907 which relieved the corporation of the police charges of the city and made over to them in exchange further responsibility for primary education medical relief and vaccination.

The Corporation consists of 72 councillors, of whom 86 are elected by wards 16 by the instites of the peace, 2 by the Fellows of the University and 2 by the Bombay Chamber of Commerce, the remaining 16 being appointed by Government. The general municipal government is vested in the Corporation, while the ordinary business is transacted by a Standing Committee of 12 councillors, 8 appointed by the Corporation and 4 by Government. The provident of the corporation is elected by the councillors but is not, like the chairman of the Calcutte Corporation, an executive officer. The

chief exchaits sutherity is vested to a separate officer appointed by Government, usually from the ranks of the Indian Civil Service, styled the Mambrian Commissioner, who can, however he removed by a vote of 45 connelliors.

Madras.—A new Municipal Act for the City of Madras was passed in 1904 By this Act the number of the municipal commissioners, to whom as a body the name Corporation was now applied, was increased from 2. to 86 besides the President and provision was made for the appointment of three commissioners each by the Madras Cramber of Commerce and the Madras Trades Association, and of two by such that associations, corporate bodies, or classes of persons, as the Local Government might direct, while the number to be elected as divisional elections was fixed at 20 Under the Act previously in lorse the total number of elected commissioners was not more than 24 The

remaining commissioners were appointed, as they are under the new Act, by the Local Government, who also appoint the President The Act of 1894 size introduced various other thanges in the law which need not be specially noticed it was modelled to a large extent on the Calcutta Act of 1899 Executive authority is vested in the President who is removable under the existing law by a vote of 23 commissioners. A Standing Committee, consisting of the president and eight other commissioners, is manuly concerned with financial and building question. The President, like the chief executive officers in Calcutta and Bombay is usually a member of the Indian Civil Service The number of persons enrolled as voters in 1911 12 was 9 824 rather more than 6 per cent of the total adult male population. The control of the Iocal Government over the municipality has litheate been more stringent than in the other Presidency towns

#### DISTRICT AND LOCAL BOARDS

The duties and functions assumed to the municipalities in urban areas are in rural areas entrusted to District and Local Boards. The entranes of pushing and local starter and systems of rural local government in the various provinces differ widely. The Madras organisation, which provides for three grades of local boards, most nearly resembles the pattern set in the original orders. Throughout the greater part of that province important villages and groups of villages are organized as Unions, each controlled by a PANCHAYAT Those bodies roostys the proceeds of a light tax on houses and spend them mainly on asultation. Next come the Taluk Beards, which form the agency for local works in the administrative sections into which the districts are divided Finally, there is the District Board with general control over the local administration of the district over his local summinguism of the district In Bombsy there are only two classes of boards, for districts and TAIDEAS respectively lu Bengal, the Punjab and the North West Fron ther Province the law requires a District Board to be established in each district, but leaves the establishment of subordinate local boards to the discretion of the Local Government to the custorenous of the Local deverament. The Bengai Act authorises the establishment of village Unions also but this provision has not been very largely used. The United Provinces, Act formerly in force directed the establishment of district and sub-district boards but the latter researched below. were abolished, as mentioned below in 1900. The system in the Central Provinces bears some resemblance to that which prevails in Madras the villages being aggregated into circles and the circles into groups each of which and the circles into groups each of which has a Local Board, while for each district there is a District Council having authority over the Local Boards. In Assam district boards have not been introduced, and independent have not been introduced, and independent boards are established in each sub-division Neither district nor sub-district boards wist in Burma, or in Baluchistan District boards were started in Lower Burma in accordance wish Lond Ripons Local Belf-Government Resolution of 1882, but the members took no active interest in them, and they died out after a few years. The district funds are now ad missistered by the Deputy Commissioners of

Elective Principle — the degree to which the dective principle has been introduced varies greatly in different parts of India but there is a considerable proportion of elected mombers everywhere, except in the horth-West Frontier Province, where the system of election was abolished in 1903 On the whole, however the principle of representation is much less developed in rured than in munit pal areas in Madras the elective system, pre fousive applied to the district boards only, was extended to the Taluk Boards in 1909. In the United Provinces and the Central Provinces there is a substantial majority of elected members.

Chairman.—The various acts usually leave it to the Local Government to decide whether the Chairman of the district board shall be elected or nominated. In most provinces the Collector has, as a general rule been appointed though in the Central Provinces the president is elected and is usually a non-official. In the United Provinces election subject to the veto of the Local Government was prescribed by the Act of 1906 but in practice the Collector is chosen. As regards the subordinate boards, the law and practice vary Generally speaking the sub-district boards are on the footing of subordinate committees or agencies of the district boards, with very limited powers and resources but in Madras they exercise independent authority subject to the general control of the district boards, primary education, medical work, and sanitation.

Provision is made, on much the same lines as in the case of municipalities, for the exercise of control in certain directions by Government or its officers.

Sub-District Boards—The Decourtalisation Commission having in view the admitted failure of sub-district boards as a whole under existing arrangements, except in Madras and Assam put feward proposals for making them the principal agencies of rural board admit simalion by giving them independent resource, separate spheres of duty, and large responsibilities. Proposals for giving the district boards a larger measure of independence were also put forward.

Revenue and Expenditure.—The sources of income open to rural boards are much nar rower and less elastic than those of the municipalities. The greater part of their revenue is derived from a cess which they are empowered to levy on the land, and which usually does not exceed one anna in the rupes on the annual rent value (or, in rystwari provinces, the Government assessment) The cess is ording Government assessment) The cess is ordinated for the collected by Government agency along dependent sources of income and mercy received with the latter. Since 1906 the income derived them. In Madras the Taluk Boards received that the latter case has been supplemented by a half the land cess levied in their areas, as well will be the control of the the rate of 2, per cent of that Income Sub

stantial amounts, apart from this special con-tribution are granted to the district boards by the Local Governments for various purposes Apart from receipts in connection with their educational and medical institutions, and markets, the only other important sources of markets, the only other impossess sources of independent revenue are pounds and ferries, and in Madras, road tolls. Except in Madras, the sub-district boards have generally no in dependent sources of income and merely receive

District and Local Boards —The following table shows the general constitution of the boards in each province the figures in itality greating to local boards, the others to district boards The figures are for 101.1 4 sare where otherwise stated —

l rosanec	\umber	Total Number	App	By Somtuse	nt	B; Emplo		.B Ro	
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Assam	₹ 18 I	18د	7€	58	184	<b>~</b> 9	939	140	178
*Bengal	f 25	90ء	132	168	209	103			418
- Di Hesi	. ₹† . <b>*</b> . <b>!</b>	908	56	#13	388	93		38	818
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#### POLICY OF GOVERNMENT DEFINED

The Government of India issued on April therefore received with mixed feelings. Those 28th 1915, a long resolution dealing with the who expected a declaration of a boid forward growth and future of local self-government policy were desponded, whilst those who in India. From what has gone before it will realised the difficulties inherent in the working have been seen that the Decentralisation tom mission made many and detailed recommends tions on this question and the intention of the tions on this question and the intention of the resolution was to summarise policy on these prosition was to summarise policy on these points as well as to complete the thain of pronouncements of policy which commenced with the education resolution and was followed by local self government arose the anitary resolution. Owing however to the wide diversity of conditions in India and the extent to which local self sovernment must be a provincial question it was not apparently possible to lay down broad and simple local self government is a question of the development of local self government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the self-government of local self-government is a question of the local self-government is a question of the local self-government in the development of local self-government is a question of the local self-government in the development of the local self-government is a question of the local self-government of the local se

of the principle until some means of providing the necessary funds are devised realised that It went as far as possible in existing conditions

on a rayer, and overdeniam to haus decree to accept the view of the local government or advantantation as to the degree of progress possible at the present time Local Governments and Administrations the resolution saided, were prepared to advance in the direction of the main recommendations of the De centralisation Commission

Turning to details the resolution showed that of the 695 Chairmen of Municipalities 222 consisted of elected non-officials 248 of elected officials 51 of nominted non-officials 174 of nominated officials The election of non-official chairmen has long been urged by Indian poli ticians, and their views have been so tar accepted in favour of substituting, so far as possible, non-official for official chairmen. With regard is now very much in favour. This consists m the main of a constitution under which an elected charman is the mouth disce of the opporation whilst the head of the executive is an official nominated by deverament but under the control of the Corporation. Whilst not pressing this system on all Local Govern ments, the resolution pointed out that it had the advantage of securing a continuous and strong executive administration by a paid whilst maintaining the corporate control and activity of the municipal board. As to the 701 municipalities in existence at the close of 1912-13 (excluding the Presidency towns and Rangoon) amounted to £3 282,845 or Rs 4,92,42 675 apart from extraordinary receipts or an average of £4,683 or Rs 70 245 a year or an average of 24,083 or 163 70 245 a vent this shows a very rapid expansion Contri-butions from Government have materially assisted this expansion Since 1911 the Gov seasured this expansion since 1911 the Government of India have made grants amounting to £3 078,486 (Re 4,61 47 000), of which £368,300 (Rs 55 23 000) are recurring, for urban paritation Municipalities have also received their share—the exact figure is not moselved their share—the exact agure is not easily ascertainable—of the large educational grants made by the diovernment of India sincipal amounting to about £9.987.900 (Re 5.98,17.000), of which £856.686 (Re 1.24,00.000) are recurring. Municipal boards have been relieved of all charges for the maintainance of relieved of all charges for the maintainance of the control of the charges for the maintainance of the charges for the maintainance of the charges for the maintainance of the charges for the maintainance of the charges for the maintainance of the charges for the maintainance of the charges for the maintainance of the charges of the maintainance of the charges of the maintainance of the charges of the maintainance of the charges of the charges of the maintainance of the charges of the police within numicipal limits In almost every province the recommendation that municipali ties should be reheved from financial respon sibility for famine relief and should receive assistance from Government in the case of severe epidemucs has been already given effect to or the principle has been accepted. The Government of India have also scoepted a further recommendation namely that seal tance may legitimately be given by Government to be trashle to carry on the normal standard of administration required from them

On the very important subject of financial control, which is some times described as infinite the Government of India suggested that the Government has appointed a strong mixed manifopalities should have a freer hand with committee to consider the whole question of regard to their budgets, the only check being look self-government in the rural area whose the maintenance of a prescribed minimum report is awaited with great in better

On services, the Government of India decided balance. They held this out as the policy which should steadily be kept in view

The Decentralisation Commission recommended that sub-mistriet boards should be universally established and that they should be the principal agencies of rural administra-tion. The Government of India left this ques tion to the discr tion of the Local Governments. The Local Governments favoured a policy where district and sub-district boards should where district and sub-district boards should contain a large preporderance of diected mean bers. They took the view in which the Gov ernment of Indla concurred, that an official should remain chalman of every district and sub-district board. The total number of district and sub-district boards in 1913 was ticisms, and their views have been at the accessor of the control Government for education and sanitation resolution analysed at some length the proposal that district boards should be empowered to levy a railway or tramway cess in order to expedite the improvement of communications The Government of India have empowered district boards to levy a special extra land cem of three pies in the rupee on the annual rent value of land for the construction of light rail ways or transpars conditional on the proposal obtaining the assent of three fourths of the merubers of the board. The Government of financial resources of the municipalities, it indicates the board that the source of the municipalities, it indicates the board could issue was shown that the aggregate income of the debentures secured on the railway property when its accumulated funds were insufficient to bear the cost of construction. They also recommended that the present restrictions on the financial powers of the boards should be gradually relaxed in the direction of securing full discretion subject to the maintenance of the prescribed working balance

> Turning to the organisation of the villages the resolution expressed the views of the Gov ernment of India towards the establishment of panchavets in the following passage — where any practicable scheme can be worked out in cooperation with the people concerned, full experi ment should be made on lines approved by the local government or administration concerned With this general recommendation they left the matter to the local authorities With regard to the Presidency corporations, the Decentralisation Commission recommended that the Bombay system of an unofficial phair man and an official head of the expoutive should be generally followed Bengal and Madras agreed generally with the proposal but Rangoon regarded it as unsultable to the condutions there obtaining The Government of India declined to endorse the suggestion that a Lecal Government Board should be formed in each Province for the control of the local bodies. In conclusion the resolution summarised the policy of the Government of India towards the development of local self government as one of prudent boldness calculating risks but not afraid to take them in the cause of progress

Since this resolution was issued the Bombey

# Local Covernment Statistics.

Municipalities - With this grand natural action we can now tern to the statistical results of the working of Local Sell Government. The following table gives information as to the constitution of managinal committees taxation day, in the objet provinces in 1949-14 (or 1949-18) when no later flower are available.

	Ponulation	Number			By Qualification	uor;	By Emj	By Employment	By	Ву Касе	- F	á
1	Within Municipal Limits		Vembers Vembers	Ex Official	Nom! neted.	Blected	Rected, Officials	Non. Officials.	Furo	Indlene	of Municipal appearing the per head,	1 2 2 2
Presidency Touris	-										-	4
*Colout to	896 067	<b>.</b>	2	1	33	엃	4	97	16	ž	12	•
Bombay	979 445	<b>-</b>	ęa		16	99	~	65	18	Z	15	•
*Madras	518,690	-	8	1	16	ន	2	18	31	ā	7	<u>.</u> -
Rengeon	284, 638	7	22	#	10	61	83	72	13	35	14	0
District Municipalities												
Bengal	1,978,116	111	1 626	168	-81	288	190	1 36	181	1,365	~1	10
Bibar and Other	1,179,855	25	277	78	- 325	169	100	672	105	667	-	-
Аѕват	12, 652	18	197	32	84	헍	9	147	87	91	91	+
•Bombay and Sind	2,354 932	158	\$,810	288	890	816	457	1 673	142	1 999	es	69
Madras	2,006 585	<b>8</b>	196	7.2	392	70)	147	25	146	818	Ç4	•
United Provinces	8 000 008	<b>8</b>	1 181	60	211	226	175	3 000	134	1 047	οι	٠
Punjab	1 626 579	104	1,179	<b>\$17</b>	410	543	287	876	102	1 077	e	10
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Burna	629 620	\$	999	181	282	97	8	862	160	90	ø	<b>૦</b> 4
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#### Sanitation.

The history of the sanitary departments in India goes back for about fifty years. During that period great improvements have been effected in the sanitary condition of the towns through much remains to be done but the progress of rural sanitation which involves the health of the great bulk of the population has been also and incommensurate with the thought and labour bestowed on the subject. 'The and agoon described in the subject. Interest lies in the aparthy of the people and the tenactive with which they cling to domestic customs injurious to health. While the in hightenits of the plains of India are on the whole distinguished for personal cleanliness the sense of public cleanliness has ever been wanting Great improvements have been effected in errent improvements have been effected in many places, but the village house is still often ill ventilated and over populated the village site dirty crowded with catale choked with rank vegetation and polarmed by stagmant pools and the village tanks polared and used in discriminately for bathing cooking and drinking. That the way to improvement his through the coincation of the people has always been remonised

Of recent years the pace has been speeded up as education progressed, education develop ed, and funds were available. In a resolution ed, and funds were available. In a resolution! issued in May 28rd 1914, the Government of India summarized the position at that time and laid down the general liers of advance. This resolution (Gasette of India, May 25th 1914) should be studied by all who desire to under stand the present position and policy its main features are summarised here.

be governments in India have moved more rapidly of late. In 1898 the Government of India lassed an important statement of policy In 1968 imperial grants amounting to Re 20,00 000 (£ 200,000) a year were made to local Government. A new department of the Government of India was created in 1910 in order to relieve the Home Department of edu cation, sanitation and some other branches of the administration. In addition to sanitary conferences held by local Governments three contracted and by local overniness arrest all-ludia sanitary conferences were convened at Bombay Madras and Lucknow respectively over which the Ham'ble Sir Harcourt Butler precided as Member of the Governor General Scommal in charge of the department concerned

search Fund Association has been founded to further the prosecution of research, and the propagation of knowledge and experimental measures generally in connection with the causation, mode of spread and prevention of communicable diseases. To this hund the Government of India make an annually recurring grant of 6 lakins of rupees (283 383) Moreover since the constitution of the new department of the Government of India, imperial grants have been made to local Governments and Administrations to the amount of Ba. 461,47000 (28,2076 465) of which Rs 55.23,000 (28, 388 200) are recurring and Ra. 406 24 000 (28, 2708,298) non recurring In addition grants amounting to Rs. 82.83 lakins (2.548,960) a year have been made to district boards in certain provinces, a substantial portion boards in certain provinces, a substantial portion of which will, it is hop d be expended on raral sanitation. These grants have rendered practicable the execution of schemes which a few treath the execution of schemes which is few years ago seemed beyond the limits of financial possibility and there can be little doubt that the movement for sanitary reform is now well established and progressive throughout the

Organisation—As a result of the Plague Commissions a Report Lord Cursons Government took up with vigour the reorganisation of the sanitary department. Research in stitutes were started and an appointment of Sanitary Commissioner with the Government of India was created. The functions of this conference to adults the Government of India. officer were to advise the Government of India upon sanitary and bacteriological questions to settle with local Governments the principles on which an advance should be made and to on which an advance amount or made and to organize and direct research throughout India The arrangement was not completely successful Among the disadvantages, the separation of research from clinical work deterred men from entering the department, and the office work in connection with research prevented the Sanitary commissioner from undertaking wide and constant touring The organisation was accordingly modified in 1912 The Sanitary Commissioner is now the independent adviser to the Government of India in all technical and sanitary matters, but all questions of personnel as well as the administration of the bacterio-Commit in charge of the department concerns of logical departm 1 to and research generally have the control of the Director as well as officials, by laymen as well as professional sanitarians. Again the indign Re-Sanitary Commissioner as his staff officer

#### The Sanitary Organization.

The sanctioned strength of the superior sanitary organisation in India now is

- (a) A Sanitary Commissioner with the Government of India
- (b) A bacteriological department comprising...
  - (f) thirteen laboratory appointments distributed as follows -

Central Research Institute 1 Director and 8 Assistants. 1 Director and 2 Assistants.
1 Director and 1 Assistant.
1 Director and 1 Assistant. Bombay Bacteriological Laborators King Institute of Preventive Medicine, Madras Pasteur Institute, Kassuti Pasteur Institute, Comoor 1 Director and 1 Assistant.

(ii) fifteen new appointments recently sanctioned for the proceoution of research work and direct investigation in the field.

(c) The following establishments under local Governments --

		Deputy	Healt	h Officers	Sanitary R	ngineers.
Province	Sanitary Comis- aloners	Sanitary Commis- sioners	1st class.	2nd class	Banktary Engi neers.	Deputy of Assistant Sanitary Engineers
Madras	ı	3	12	19	. 1	. 6
Bombay	1	6	4	9	1	1
Bengal	1	5	6	17	1	٠
United Provinces	1	4	11	17	1	3
Punjab	1	_	2		1	l i
Burma	1	1 2	4	16	1	1 2 2
Bihar & Orlesa	3	د ا	_	4	1 1	2
Contral Provinces	1	1		2	1	
Азрато	1	<u> </u>		I .	1	i
North West Frontier Province	1	3	1	1		t
Delhi	1	l .	3	-	1	
Total	11	6	40	94	10	16

Provincial Agency—in their resolution, dated the 22rd May 1912 the Government of India provided for a large increase in the number of Deputy Sanitary Commissioners and for the appointment of health officers (of the first-class for larger municipalities and of the second class for the smaller towns) on the lines of detailed proposals received from local Governments Fwelve additional appointments of Depaty amitary commissioner thirty five appointanitary commissioner thirty five appointments of health officer of the first-class and a large addition to the number of second-class health officers were sanctioned in 1312 and nearm omeers were sancoused in 1312 and 1918, the entire cost of the additional Deputy anitary Commissioners on the basis of the scale of pay fixed for Indians and half the cost of the health officers being met by imperial grants. The Government of India also advised local Dowernment in take nowers where these did. Governments to take powers where these did not exist, to require a municipality to appoint a health officer and to veto the appointment of an next of the control o pality is required to employ one or more trained sanitary inspectors in proportion to population sanitary inspectors in proposition to population sanitary inspectors are now being employed in large numbers in towns. In addition, the civil surgeon in every district is the sanitary adviser of the load authorities and in most provinces controls the vaccination staff. The provinces of an increased staff of sanitary engineers is engaging organ attention.

Voluntary Agency—the Government of India attach great importance to the organisa ition of voluntary agencies and have recently made a grant of Rs. 20,000 (21 323) a sum equivalent to that given by the Bombay Govern ment to the BORBAY SANITARY ASSOCIATION which was founded in 1903, and now has corresponding branches in several districts and Native States.

Research.—The policy of the Government of India is to keep the control of research under treelf but to decentralise other branches of manitation. The creation of an imperial depart, chief difficulty at present is to provide courses

ment is no departure from that policy and the large imperial grants already mentioned have been made without any interference with provincial Governments While the general direction of a policy of public health must remain with the central Government, all detailed control and the central Government, all detailed control of the central Government, all detailed controls and the central Government, all detailed controls and the central Government, all detailed controls and the central Government. and executive action are and will be, left to local Governments. The Sanitary Commissioner with the Government or India is a touring officer empowered to consult and confer inform ally with local Governments and their officers upon matters connected with sanitation. He is not permitted to encroach upon the authority of Local Governments over the officers under their control

Provincial Officers.—The position of Provincial Sanitary Commissioners towards the administrative heads of the medical department Varies somewhat in different provinces The Government of India do not wish to interfere with the arrangements which local Governments may consider best suited to local conditions but they desire to insist on the importance of defin ing the functions of the two officers and securing to the Sanitary Commissioner the position of responsible technical adviser to the local Government in all matters affecting public health

Sanitary Boards.—In every province sanitary boards have been composed with vary ing powers, some being merely advisory others baving authority to sanction schemes and allot funds. These boards are composed of officers belonging to the medical, sanitary engineering and other branches of the civil services with the addition of non-officials. The Government of India view with favour and confidence the de volution of financial authority and responsibility volution of manical substances and responsibility to these boards and they commend to local Governments the appointment of a permanent mainted secretary to the board where this has not been done. They believe that such an appointment wherever made has resulted in an increase of efficiency

Training —Arrangements for training the superior sanitary staff are now engaging the attention of the Government of India. The

it prestical hygiene and in the study of the bacterising and attology of tropical diseases. It is isoped in the near fature to make arrangements in India for the diemer and to utilize the schools feedback. Meanwhile, a British diploma in public health is required from candidates for the past of Deputy Sanitary Commissioners and health officers of the first class. The problems of public health in India are vitally complicated by the fact that hiting insects are a prominent factor in the discomination of disease and it is obviously desirable to provide in India, as soon as possible, a complete course of training for sanitary officers.

Training classes for sanitary inspectors are now held in all the more important provinces.

Department of Public Health.—A substantial beginning has thus been made for the derekopment of a department of public health and Indians have been freely enlisted for it. The posts of Deputy Banitary Commissioner and health officer are now open to Indians. Nine Deputy Sanitary Commissioners out of 28 and the majority of health officers are Indians. The new bacteriological department consisting of 28 officers is also open to duly qualified Indians

As health officers and Saultary Engineers granularly relieve Deputy Sanitary Commissioners of much of the drudgery of Impection and routine work, it is hoped that the latter will be set free to deal with spidenies and communicable diseases from a higher plane, and to consider tenues of public health wheer than those which they are able to review to-day. It is therefore important to provide in advance free interschange between them, the laboratory workers and those carrying out practical research in the field.

Progress of Research.—Research is slowly lifting the veil which hides the secrets of disease and mortality and opening up fields of inquiry scatterly thought of a generation ago. The discretely thought of a generation ago. The discretely thought of a generation ago. The discretely thought of a generation ago. The discretely thought of the partiple by the mosquito in the communication of the Plague Commission in 1893 are landmarks in the history of Indian Sentiation. In 1802, a research institute was feared at Gundy in Madraman-Colonel King, O. I. B., I. M. S., in view of his devoted efforts in the cause of anitation in that presidency. In 1896 Lord Curxon a Government summed up the position and the policy of the Government of India in regard to the establishment of laboratories for the study of problems of public health in India. The functions of the central laboratories were diagnosts and special research connected with local research the propuration of currative sers and the training of scientific workers. The innotices of the provincial laboratories were diagnosts and special research connected with local conditions. This policy has been steadily developed. The Central Research Institute has been extended and re-outspet of tropical medicine. A research laboratory for the Bombay Presidency and a suggested is under consideration to discontinuity and about of tropical medicine are under completelion at Calverte.

erist at Kasaril and Connon. A third is about to be established in Burms, and it is under discussion to establish others in Assam (where it will be combined with a research laboratory) and Bomber of the combined with a research laboratory.

Besides the routine work connected with the bacteriological diagnosis of disease, antirable treatment, the manufacture of various vaccines and sera and general research, these laboratories at different times have been the centres of many special invertigations, notable amongst which are those on plaque and exteric fever. It is hoped that before long each province in India will have a laboratory fully equipped for research.

Research Fund Association.—The found ation of the Indian Research Fund Association in 1911 has marked an important era in sanitary in 1911 has marked an important era in sanitary progress. The control and management of the association are vested in a governing body the president of which is the Member in charge of the Education Department of the Government of India. The governing body is assisted by a scientific advisory board of which not less than three members have seats on the governing body ing body They examine all proposals for work in connection with the adentific objects of the amodistion and report as to their import ance and feasibility. The members of this board are appointed for one year but are eligible for re-escrim, and they have power to add to their number. The present members are the Director General Indian Medical Service, the Sanitary Commissioner with the Government of India, the Director of the Central Research of India, the Director in the Central nessea in Institute at Kasani, the Officer in charge of the Central Malarial Bureau and the Assistant Director General Indian Medical Service (Sani tary) Str Rouald Ross has been elected an honorary consulting member The member ship of the Indian Research Fund Association ship of the indust necessivo rund association is open to non-officials. Every donor of Rs 5 000 is entitled to become a permanent member while every subscriber of Rs. 100 per annum can be a temporary member. Members of the association are entitled to attend and take part in the annual general meeting of the association. in the annual general meeting of the association and to receive copies of the reports and other publications issued from time to time by the association. Although, so far the fund has been financed solely by the Government of India, it is hoped that in time Indian philan thropists will contribute towards the orpansion of the association by founding chairs of research by financing experimental research measures and otherwise

Work of the Association —The association has been softwe and can already point to some schlevement. Out of an income of Ba. 15 laking (\$100,000) received since its incorporation and up to the end of 1913-14, an expenditure of over Ba. 14 laking (\$93.88) has been sanctioned. In 1911, Major S. P. James I.M.S. was deputed to study yellow fever in its endeade area and to draw up proposals for protecting India against the introduction of the disease. Those proposals are still under consideration, in the meanwhile, steggonyls surveys have been carried out in Calcutta. Bombay Madras, Karachi and Bangrota and other seaports Anti-malaria schemes based on prefinance; surveys have been carried out in Calcutta.

seat in progress into the problems connected with the prevalence of choices, lais-arear dyses tory, legrouy and gotter, as well as inquiries into the pharmacology of enchoices derivatives, the mes of hydrocyanic and gas as a pulcade and the fration of chemical standards of purity for milk and milk products. Other investigations are under consideration regarding bacteriolical standards of purity for water supplies, the different anti-cholera vuccines and sera, the methods of water filtration and slit removal best anti-choice of diabetes and the fevers of short duration finese will be started so soon as more trained research workers are available. It is hoped also to carry out during the next one pidentic season, an experiment in plague prevention on a large scale.

Besides financing the investigations conducted by its own staff the association gives grants in aid to outside research on approved lines. The co-operation of other workers has been sought and every encouragement has been given to them Grants for research have been made, for instance to Professor MacMahon Dr Hossack and Mr Howlett. The services of Indians have also been emisted. Dr Korke sengaged in an important investigation into tala axar while Mr Awati a medical entomologust is employed under the association. The Government of India cordially approve the policy of encouraging private enterprise in the cause of research.

The association has also started a journal for the publication of medical research work done in India—the I Pulsar Journal or Munical Research —published quarterly The favourable reception which has been accorded to the first three numbers is evidence of the increased interest that is being taken in sanitary science in India to day

The investigations enumerated above represent the work directly under the supervision of the Government of India. The local Governments also are fully alive to the importance of research, and in seven provinces nine special officers are at present engaged in investigating the cause-indexlying the local prevalence of malaria and devising suitable schemes for the mitigation of that disease

Water Supply — Few subjects have reacted more attention of late than the provision of apped supply of filtered water in towns Complete figures are not available but sums amounting to at least Rs. 3,51 8,297 (£2,34,388) have been spent during the last 20 years on complete achieves Projects coating Rs. 1 10 03 433 (£933,962) are under construction and projects costing Rs. 114 44,750 (£782,983) have been prepared and sanctioned These figures are exclusive of the expenditure in the Presidency forms and Rangoon.

dancy towns and mangoon.

Drainage.—Drainage schemes on modern lines, are the basis of all sanitary improvement in urban areas. The demand for them is scarcely less than that for piped water and is steadily on the morease. As in the case of water supply complete figures are not available but the known expenditure during the last twenty years has been considerable and is now rapidly incessing. The expenditure of the property of

during that period amounted to Rs 07 85,048 (4,651,009) whereas the cost of the works under construction is estimated at Rs 1,54,85,650 (51 022,039) In the beginning procedence over drainage was given to piped water-supply but experience has demonstrated the advantage of introducing both concurrently. With the surplus water and without piped water supply it is difficult to find the trains properly

When drainage schemes on modern lines were first started in this country there seems to have been a bias against the use of sewers, and, wherever possible, open drains were adopted Experience has shown that the preference for the open drain and the fear that sewers would give excessive trouble were used to the contrary much of the advantage of a drainage system is lost if only open drains are used, as the old system of handcarriage latrines has to be continued. Moreover economy in establishment is possible only in the case of a sewage system.

Pilgrimages—Pilgrimages necessitating as they do the collection of large numbers of persons often more than a milion at one place at one time have an important santary aspect manuly in connection with cholers and other communeable diseases. The Government of India recently decided to examine the sanitary arrangements at the chief places of pelgrimage throughout India and local (for examines were asked to appoint provincial committees for this purpose under the foregramment of India with a view to for mulist practical schemes of improvement. The inquiry is still in progress but the Government of India they are to find a three arready made a grant of Ra 2 laking (18 383) and promised an additional grant of India three arready made a grant of Ra 2 laking for the improvement of the pligrim route to Badrinath and they have made a further recurring grant of Ra 2 0000 (El 383) a year for the same object. The important question of improving the conditions of the pligrimage to the Hedjas by Indian Musulmans and promote the convenience and counter of many milhous of the Majesty's loyal Indian subjects, within the subject of the Majesty's loyal Indian subjects.

Rural Sanitation.—The following observations are based on practical experience of rural sanitation.—

- (a) Travelling dispensaries may be used to spread a knowledge of the simple facts regarding the more comment diseases. For this purpose the subsection surpose in change should be given a special training in hygiene. Once they become known to the people as healers of the slock their advice as sanitarians may become more acceptable.
- (b) The improvement of the vilinge water supply is an important as it is difficult Apparently excellent results have been obtained by distinction of water with permangenate of potash. Bitpermants are being made in different

- parts of India in the use of tube-wells, etc. It might serve as an useful object basen to use pumps and tube-wells for the provision of water at fairs, schools, hospitats and local public offices. In some localities a tank supply alone is possible and the difficulty is to protect even new tanks from pollution
- (c) In several provinces, notably in Madras village unions or direles have been formed and their committees entrusted with small grants for the improvement of the sanitation of the village site. This measure might be extended experimentally elsewhere. It is calculated to encourage discussion and inquiry regarding sanitary work.
- (d) Village midwives are in some districts encouraged by small grants of money and rewards to attend at the head quarters hospital for a short and simple

- course of training. These measures open up possibilities with reference to a reduction in infantile mortality and children's diseases generally
- (c) In most districts in India, the civil surgeon is also in theory the sanitary officer of the district. His duties at head quarters however do not allow him to tour and inspect in the district to the extent that is necessary even in the case of epidemics in the district it is sometimes not possible for him to leave headquarters. In some provinces, district sanitary officers have been appointed and there can be little doubt that many more such appointments are required and that one of the most urgent and hopeful measures for promoting rural sanitation is the appointment of well qualified and whole-time district health officers to control and organics all sanitary arrangements and experiments in the district.

Birth and Death Rates — The population of the areas in which births and deaths were registered was 288 323 865 according to the census of 1911 and the number of births registered in 1913 was 39 87 per mille compared with 39 95 per mille in 1912 and an average of 38 37 per mille in the five years 1908—12 The total number of deaths was 6846,018 = 28 72 per mille, as compared with 29 71 per mille in 1912 and 32 77 for the five years 1907 11 This was the lowest rate since 1898 The rates for the provinces are given in the following table

	Birth (per 1			Dea	th Rates (	per mille)		
Province	1912.	1918		1912,			19 <b>13</b>	
			Urban	Rural	Total	Urban	Rural	Total
Delhi		44 8	43 7	<b>8</b> 3 0	39 3	44 2	85 1	40 0
Bengal	85 3	33 7	24 5	30 1	29 8	4 9	29 7	29 4
Bibar and Oriesa	42 b	42 1	30 0	31 0	ไร๊กัด	4	29 2	29 î
Amen	82 Z	38 1	208	25 1	25 0	21 2	29 2 27 8	27 7
United Provinces	40 4	4.7	34 4	29 €	29 9	39 4	J4 5	84.8
Punjab	45 9	45 4	31 9	26 1	26 6	3. 7	29 7	30 2
₩ Frontier Pro-			ŀ	_		** .		** -
vince	37 1	36 Z	222 7	23 5	28 4	24 3	.4 "	24 7
Central Provinces and			1		i -• .		1	
Berg	48 2	49 8	47 6	41 8	4.2 j	30.9	80 2	30 %
Madras	30 9	82 2	228 6	23-8	24 3	26 2	208	21 4
Coorg	26 32	259	64.1	36.8	38 4	47 6	32 €	88 5
Hombey	85 0	850	41 5	338	34 9	32.9	25 4	26 7
Burma Lower	31 7	31 7	872	24 4	28 0	32.9	22.2	23 6
Burma Upper	33 0	84 2	44 1	27 5	29 0	J 3 3	26 5	27 6
Almer Merwara	47 08	43 2	!	1	38 3	1		25 9
Total	38 95	89 3	33 1	29 4	29 7	81 0	28 5	28 7

The most striking feature was the diminished death-rate in the Central Provinces where cholera and malaris had prevailed in 1912, and in Bombay where cholera showed a marked decrease. The hortessed death rate in the United Provinces and the Punjab was due chiefly to fevers which had shown an exceptionally small mortality in the previous year. The reduced borth rate in Bengal is attrabuted to the rise in prices.

The excess of births over deaths ranged from 19 per mille in the Central Provinces to 4 3 per mills in Bengal The mean percentage of male to fermale births ranged from 126 5 in the North West Frontier Province to 104 in Binar and Orises.

The greatest mortality occurred in December while the lowest was in February Infantile martality was highest among the major provinces in Upper Burna the Central Provinces and the Privinces the total rate per mile for all India was 192 male and 197 female streamons subject as being made to reduce these figures which, though still excessive, show a welcome decrease

Urban Vital Statistics —The following table gives the ratio of deaths per mille in cities of British India whose population exceeded 150 000 in 1911 —

	Death Rate per Mille		Death per M	
<del>-</del> -	1903 1 (Menn Rate) 1913		-1998-12 (Mean Rate)	1918
Caloutta Bom bay Madras Lucknow Rangoon Howrah Benares	29 0 29 2 37 32 7 40 0 40 3 01 8 47 0 58 2 59 4 28 4 10 5 56 2 50 9	Dolh Lahoro Cawapore Agra Almedabad Allahabad Aroritsar	46 7° 30 7 58-0 29 7 58 5 21 9 50 4	40 0 58 I 45 I 22 0 39 6 17 4 40 9

#### Bate for 1912.

Chief Diseases.—There are three main classes of fatal disease specific fevers diseases affecting the abdominal organs and lung diseases. Intestinal and skin parasites affects and other indications of source which prevail higher her sickness and mortality is due to deficient powers of resistance and to insanitary habits and surroundings. The table below shows the number of deaths from each of the principal diseases recorded in British India and the death rates per 1,000 during the three years from 1911 to 1913.

	Years	Small pox	Cholera	Fevers	Dysentery and Distributes	Plague	Respira- tory Diseases
1911		\$ 58 338 28				733,58 <b>2</b> 3 07	223 822 0 94
1912		89 35	407 769	3 93 6 085	292 .16 1 22	263,037 1 10	247 786 1 04
1913		98 155			246 578 1 08	198 456 0 83	287 229 1 000

With regard to special diseases choicra is much less prevaient than formerly. In 1913 14 to occurred chiefly in Bengal and Bahar and Orlssa. Plague forms the subject of a separatic section. When reference is made to fover in India, majarial fever is generally understood but many causes of death and many diseases much more fasts than maintail fever are included under the heading. The fever death rates as usual, Varied greatly ranging in the major Provinces from 23 0 m. Bengal to 6 7 in Madras. The majoris section of the Indian Research Fund Association is housed at Kasauh, but has a field-laboratory in Dell where classes are held. In 1913 35 doctors underwent instruction at these classes. And majorial operations and mosquito surveys are being carried out by special officers in practically all the provinces. It has been proposed to send a small deputation to study and majorial measures in Italy. The measures adopted to fight majorials are the sale of quinice at cheap rates and the extirpation of mosquitos by such methods as dranage petrologes and jungle obsaring.

Vaccination.—The total number of vaccinations performed among the civil population during 1913 14 was 3 877 086 being a slight decrease from the previous year 8 work of primary vaccinations 96 86 per cent and of re-vaccinations 89 86 per cent were successfully vaccinated. The number of infants successfully vaccinated was 46 88 per cent of the number under a year old late years been stacilly replaced by the use of pure call lymph. Affind-arm vaccination has or will shortly have their own call lymph depots.

Pingue.—The present epidemic of plaque in India first broke out at Bombay in Angust 1896, and as the table below shows it has been responsible for a heavy rate of mortality since that date in 1907 the deaths from plaque attained the highest total yet recorded, vit 1 315 892, for India as a whole, the number in Pritial India atome being 1 186,223 or 5 16 per mille. In 1908 the mortality declared enormously falling to 156 480 the lowest total store 1890 in 1909 there was once more a relatively low mortality siz. 178,808 deaths or fewer than in any year since 1900, excepting 1908. In 1910 and 1911 there was a severe recordescence, especially in Bengal, the United Provinces and the Punjab. In the latter part of 1911 and in 1912 the virulence of the repidemic absted, and the 1913 figures show a still further fall. In 1914 there was a rise owing to a recrudescence of the disease in Bombay and in 1915 there has been a serious recrudescence.

Plague is so local in its viritations that all general and unanalyzed statistics are likely to prove unidesting. Many parts of India have been almost entirely free from its reviges, sod in the greater part of the country the outbreaks cannot be described as having been severe or disastrous. On the other hand, general statistics tend to conceal the severity of the distress caused by the Chaste in particular districts. In some parts of the Punjab and the United Provinces the more tablety has been specially severe.

1896-97	57 548	1907	1 815,892
1898	116 286	1908	6,480 م 1
1800	189 009	1	
2000	200 000	1909	178,808
1980	92,807	1910	512,605
1901	282,027	1911	846,878
1902	576,865		010,010
		1912	305 488
1908	888 076	1913	217,809
1904	1 143,993	1014	295 897*
1905	1 069,140	1	200 041
1906	856 721	* Preliminary figure	

The reasons for this uneven incidence are at present somewhat obscure. The mortality in Rastern Bengul and in Assam has been at no time appreciable, largely it is believed because the habits of the people and the structure of their houses are unfavourable to the breeding of rats while in the Madra. Precided ey and in its runs the epiticuic has never reacted actions dimensions. How far the computative immunity of Madras is due to a policy of segregation and surveillance and how far to climatic, conditions is undeeded.

The Advisory Committee on Plaque Investigation in England and the Plaque Commission in India whose constitution has been described in former issues of this Report have concluded their investigations which have led to most important results. The main texts in regard to the mode of propagation of an epidemic and the life history of the plaque bacillus have been ascertained and rational methods of attack have thus been made possible. It is now generally agreed (1) That epide is bubonic plague in man is directly dependent on epidemic plaque in ratio (2) that the whiche of contagion between rat and rat and between rat and man is the plague infected rat lisa (3) that bubonic plague is not directly infections from man to man and (4) that the life of the plague bandlines outside the bodies of men, animals or feas is of short duration in large towns plague may persist through the year but in villages such persistence is exceptional, and the recurrence of an epidemic is probably due to fresh injection.

In the light of the knowledge and experience now acquired it is possible to deal satisfactorily with the discuss when effective control can be established over the sanitary conditions and in the case of the native army and in limited areas such as juils there has been remarkable success. But attempts to establish such control over large areas would involve too great an interference with the habits prejudices, and sentiments of the people and the application of measures of proved utility must depend upon the particular circumstances of each locality and upon the character of its inhabitants. In the face of great practical obstacles three principal measures for combating plague are now adopted.—

(1) The temporary evacuation of quarters in which plague is prevalent (2) Inoculation with the prophylactic fluid. (3) The systematic destruction of rate

Mospitals, Dispensaries, Asylums,—The following table gives figures for Indian hospitals under three heads. The institutions grouped under Heads (1) and (3) are generally speaking, for the general public Those under Head (2) are for special classes of persons such as railway arrvasts policemen, &c. —

_	(1) Civil Hospitals and Dispensaries (State Public Local Fund and Private-sided)			(2) State Special and Railway Hospitals			(3) Private Non sided Institutions		
	No of Institu tions.	No of In patients.	No of Out- patients	No of Institu- tions.	No of In patients.	No of Out- patients	No of Institu tions,	No of In patients.	No of Out- patients.
1012	2,788	492,798	28,986 768	826	93,850	2,154 284	669	51 799	4 774 887
1916	2,820	615,062	90 082,5 47	851	96 171	2,381 969	69	57 252	4,828,867

Constitution of the treatment of bunatics at saytume prevails on only a small scale in facility where instantly is less prevailent than in Huropean countries. The census of 1911 shound, at increase of nearly \$2 per cent, in the number of insane since 1901. The number admitted into asytum in 1915 was \$3.27 as against 1,931 in 1912. The total saytum population of the year was \$4.72. A new asylum has been opened in Bombay.

# The Tropical Diseases

If the principal scourges of the European in the tropics namely malaria dysentery and typhold could be removed there would still remain the strain of climate as a source of disease and a cause of deteriorated health not amounting for a time to actual illness but eventually showing its effects in lessened resistance to the wear and tear of life premature. senility of the tissues and diminished fertility This results mainly from the transfer to a hot climate of an individual whose heat-regulating climate of an individual whose new-regimening mechanism has previously adapted itself to conditions where the body temperature has to be maintained some 40° above that of the surfounding air. On arrival in a country where the temperature of the air is perhaps the same as that of the living tleanes it is obvious that of such mechanism. This mechanism is very chronic dv pepsia or insufficient manufacture complex and exists for the purpose of striking a balance between the heat formed by the changes in the tissues and the heat lost from the lungs and by radiation from the surface of the skin But beyond this there is no doubt a regulation of the temperature dependent in some way on the normal working of the central nervous system as is shown by the remark able alteration which may take place in the temperature of parts of the body when the brain has been subjected to some gross lesion

In the tropics the amount of carbonic acid given of by the lungs is redu ed about twenty per cent the number of respirations per minute is reduced and there is lessened activity of the lungs. This shows that there is less tissue change (or combutton) going on in the tissues that is to say dimunished heat production The same is shown in the diminished amount of work done by the kidneys As regards heat loss this is almost entirely effected through the skin 70 per cent of the heat of the body in temperate climates going off by radiation and conduction and 15 per cent by evaporation. When however the temperature of the tropical atmosphere dees the less by radiation falls to nothing and all the heat has to be dis sinated by evaporation from the surface sequently practically all the work of losing heat which strikes the balance with the heat production and maintains the body at a nor mal temperature, falls upon the sweat glands which are therefore in a state of continued and abnormal activity. In hot dry atmospheres the water evaporates as soon as formed but in the water evaporates as soon as formed but in conditions of heat with great hundlity such as obtain during the worst months of the year in Calcutta and Bombay the skin is kept on thously moist by trickling beads of perspiration. Herein lies the conflort and heatthings the state of the punkah which removes excessive mois ture. But it is obvious that in order to keep ture, but it is obvious that in order to keep it may inoculation of the skin is likely to take the temperature of the body normal there is place through scrutching, and no to the formal must be increased flow of blood to the surface tion of boils. In some cases the skin is so the conditions under which the organs of the European have been trained. This favours those surface gives the Lupression of sand paper, and so the surface gives the Lupression of sand paper.

This account of the chief tropical diseases was ject and acts prejudicially to the working of written by Major Gordon Tucker in 8 of Grant Medical College — an acts prejudicially those ambserving drant Medical College — the internal organs sepecially those ambserving disease in the minimal scources of the European in must chill the surface causing a sudden con traction of the cutaneous vessels and tending to produce a rapid flux of blood to the deeper parts, inducing a congestion of the musous membrane of the bowels and from that re suits the morning diarrhess which is occasionally severe and exhausting Such a state of affairs may become chronic and so lead up to one of the climatic diarrhess which are a frequent cause of invaliding Moreover a sudden congestion of the liver and spleen in a person who has bad malaria may be tol loved by a malarial hepatitis or splenitis and repeated attacks of these conditions may re sult in permanent enlargement of these organs or at any rate in the case of the stomach and over to derangement of function and so to

> Agein the chronic hypersonia of the skin favours the development of fund and microbes Hence the exist nee of rugworm of various kinds from which Europeans requently suffer Three are microbes which even in temperate cilimates are found within the layers of the skin or on the surface. On account of the chronic congestion and moisture of the skin or tropical cilimates these microbes not only become abundant but virulent and knee the BORES which are often account sufficient in the hot morals. Hence the exist nce of rangworm of various distressing cases where the patient is covered from head to foot with them. When the boll comes to a head and softens it is easy to afford comes to a near and sortens at a case to anomore but the worst kind is the blind boil" which forms as a hard red mass intensely painful and not coming to a head and here an inclaim given little relief. Until lately those cases were very unsutsistantory to treat and patients would recover after weeks of pain and much reduced in health. Fortunately we have in the vaccine treatment a most successful method the vaccine used being either a stock one and generally acting the magic or in a small generalty acting the magic or in a small percentage of cases requiring to be made from the bolls themselves. In still other cases the infection of the skin causes the formation of CARBUTCLES which are more serious but require treatment on the same lines

> Another more common condition resulting from the congestion of the skin is PRICKLY REAT This results from soute inflammation REAT This results from scute inflammation about the sweat glands and distention of their orifices producing red papules and little vest cles the site of intense itching. The trouble the site of intense beams. The trouble is believed to result from the proliferation of a particular microbe in the skin which siters the reaction of the perspiration. Be this as it may hooculation of the skin is likely to take

the irritation prevents sleep, interfers with drawn out process of nervous exhaustion we dissection and so promotes diarrhese, so that have the common tropical effect of definient this simple majedy may be the starting point inestal energy, generally commencing with un of a dangerous illness Finance next to the natural drowsiness or loss of appetite and a skin should be avoided in the hot weather as yearning for stamulants, which outminate in it is so hable to start the irritation. A good lotion consists of two tenspoonfuls of hau-de cologne in ten ounces of a 1 m 2000 solution of perchloride of mercury databed on the skin and allowed to dry followed by dusting with equal parts of bone acid powder and tale

To avoid the heat the European flies to the punkah The electric punkah has been one of the greatest blessings introduced during recent years into Indian towns as its use in sures a good night's rest in place of the weary hours of ale-pleasness which formerly out the temper and the mental energy of the but the temper and the hottest months Still this blessing is not without its attendant dangers. Most common are attacks of mus cular rhoumatism sudden internal chills causing darrhos attacks of colle ordinary nasal catarrh, and sometimes bronching or pneu monia. The electric punkah does away with the mosquito curtain which does not conduce to the free circulation of air and gives good ventalation in its place

Finally we have the effects of a continued high temperature on the working of the nervous system As has been remarked by the late Lt.-Col Crombie 1M3 (in a valuable paper on The measure of physical fitness for life on the Tropies to which the writer is much indebted) In the tropies there is going on continually and unconsciously a tax on the nervous system which is absent in temperate climates The nervous system, especially those parts of it which regulate the temperature of the body are always on the strain and the result is that in time it suffers from more or less exhaustion. The mean temperature of a European in India is always about half a degree higher than it is in a temperate climate and it may be raised to 99° or 100° after severe bodily exertion When under the strain of a sovere hot moist and sultry season the heat centre gives out or as it is said is unhibited,

MALARIA.

Attacks of malaria dysentery, and enterto lyke body which invades the red cells of the represent the principal risks to the European blood, and lives at their expense. It has travelling in India. Malaria is the commonest two life cycles, one within the blood of the cause of fever in the tropics and subtropics, human bost (endogenous and sexual) the but the risks therefrom have been greatly dimmished by our complete knowledge of its causation which now permits an intelligent prophylaxis that is taking adequate pre-cautions against infection. The connection of certain kinds of fever with marshy soils has been recognised from ancient times whence its old name of paludiam and the word ma laris itself implies the belief in the existence of an emanation of poisonous air from the water of an emmination of poisonous air from the water legged ground. It is now realised that the poison is conveyed solely by mosquitoes and by the anopheline species. There are only a few of the many anophelines which carry mataria, but all are to be regarded as dangerous,

yearning for stimulants, which culminate in that lowering of nerve potential which we know so well as "Ft RASTHENIA This nervous disturbance due to chimato is likely to be most marked as Crombte points out, in two classes of persons namely those who suffer from obsety and those who ar members of families which may be designated as operaty and those who are members of families which mat be designated as neuropathic that is whose hervous systems are naturally invitable. To these may be added persons with naturally defevive digestion and those who have a predisposition to gont

To sum up it will be seen that the effects of long residence in the tropics are real and per manent not only in the direction of lowered bodily health but in undue wear of the nervous system, which may not only be apparent during source service in duties involving etrain an mety or responsibility but also after retirement so that the chances of longevity of the retired Indian official are not up to the normal, and the extra which the insurance Office puts on such lives is not only to cover the naka incidental to life in the tropics but also the dimmished vitality of those who have survived to PRIOT their pension and case

But there are other Indian risks and these are most likely to affect travellers due to the effects of heat on food. Microbes multiply

h profusion in milk and decomposition is li de to occur in meat within a very short time after killing. Milk should always be boiled and owing to the dirt in railway dining rooms and in many hotels and the carelessness of the lawer type of native servant employed therein it would be better to rely on tinned milk or on a supply of Horlick's milk tablets when travelling long journeys by rail and in the smaller towns Boursbould never be eaten underdone as it is a prolific source of taps worm in India There is also hability to con tanunation of food by the and dust Indian cooks, though among the best, have little regard for sanitation and consequently the we have all the serious phenomens of HWAT state of the cook house should be carefully BYROUN But in the less marked but long upervised

> blood, and hvos at their expense It has two life cycles, one within the blood of the human bost (endogenous and saxual) the other in the stomach and tissues of the mos quito (exogenous and sexual) But the first part of the exual cycle is prepared for in the blood of the human lost

If the blood of a patient be taken about an hour before the occurrence of the rigor (the shavering fit which marks the commencement of the attack) and examined in a thin film under a high power of the nucroscope some of the red corpuscles will be found to contain bodies composed of delicate protomann is conveyed solely by mosquitoes and y the anophedine species. There are only the anophedine species there are only few of the many anophedines which carry the parasites. The granules represent the parasites, but all are to be regarded as dangerous, result of the destruction by the parasite of the destruction between the parasite of the destruction between the parasite of the destruction between the parasite of the destruction between the parasite of the destruc latter consequently appears paler than natural and is enlarged. In the parasite of the so-called benign tertian fever, if the blood be again examined when the rigor is commencing, the little mass of jelly is found to have divided into from twelve to twenty minute spheres all held together by the remains of the degenerated red cell, and with minute masses of pigment in the centre Later the group of or pagment in the center. Later the group of spherules has burst through the envelope that held them, and has appeared free in the blood fluid. Many of these free spherules are attack ed and absorbed by the phagocytes but those which escape destruction effect their entrance into other red blood cells and go through the same process of sexual division taking forty eight hours for the process. On the time taken for this cycle to occur depends the periodicity of the fever the attack appearing every third day whence the name tertian fever Another variety of malarial parasite not very common in India, takes seventy two hours to complete

There is also a third kind of parasite called the malignant tertian called by the Ital lans the assityo-autumnal parasite which also takes forty eight hours to go through its cycle but which gives rise to a more irregular fever and has more perilcious effects on the system and is also liable to produce source norvous symptoms such as unconsciousness often ending in death with very high fovor Each kind of parasite has its special characteristics which can be observed by microscopical examin ation Consequently expert examination of the blood is always advisable in cases of fever is causing the trouble

Within the blood there also appears the first stage of the sexual life of the parasite urst stage of the sexual life of the parasite in the shape of male and a male elements which result from some of the paragites which do not undergo the usual segmentation des cribed above, and which exist for the purpose of allowing further development in the non human host which in the case of this parti-cular parasite is the mosquito. These exual elements are especially in evidence in the blood of cases of the pernicious variety of malaria in the form of crescentic hodies which obtain considerable protection from the phagocytes and many therefore persist for some time in such blood Crescents appear only in such blood Crescents appear only in malignant levers and persons who harbour them are of course a danger to the community inasmuch as the mosquitoes of the locality are injected from them thus rendering such village or street unhealthy from malaria

The acxual elements of the malarist para sites when taken into the stomach of the mos guite which sucks up the blood of its victim quite which sheak up the blood of its victim undergo certain changes, the male element extruding flagellate or bair like processes which fertilise the female The latter therepone changes into a body endowed with the property of locumotion which makes its way into the coats of the stomach of the base. and becomes divided up into a vast number trees. A disploratic, or sweating mixture, of inhute cysts, each of the latter becoming packed with minute rod-like bodies. The until the skin becomes moist, and throughout the hot stage this secon gives relief, and when mosquito, and the rods thereby set free, be-

come collected within the substance of the salivary glands, and ultimately make their way to the base of the probosols. On such an infected mosquito pushing its probosels into the human skin when it wishes to draw blood some of the rods are injected into the blood stream They then enter red blood corpuscles and go through the various sydem described above

From three to five days, or as long as a fort-From three to five days, or as long as a fortingth, after being bitten by such a mosquio the patient has an attack of fever, sometimes proceded by pains in the limbs headachs, and malaise This is soon succeeded by a feeling of intense chill perhaps associated with vonding The skin becomes cold and blue the shivering is excessive and prolonged, con stituting the lager stage. In this state the material is in creat distrang and obtains stituting the rigor stage in this state the patient is in great distress and obtains little sense of relief from the blankets which he heaps up over himself Although the surface of the body is very cold the temperature taken in the arm pit or mouth shows a rise to 103 or higher in a quarter of an hour or more the hot stage comes on the face becoming flushed the surface of the body red and warm the small quick pulse becoming and warm one sman quos purse becoming full and bounding and perhaps the patient complains of throbbing headache. He remains thus for a few hours and then occurs the sweating stage perspiration breaking out about the brad and have and soon extending to the whole body. Great relief is experienced when this is entered on and is likely to be followed by a refreshing steep. During the the blood is always advisable in cases of fever paroxym the spleen is often enlarged and may not only to show that malaris is present but is the seat of considerable pain. There is also to distinguish the particular kind which is also often troublesome cough from a concomi tant bronchitis With repeated attacks the enlargement of the spleen is liable to become permanent, the organ coming to form a large heavy tumour with special characteristics, the so-called ague cake, which is common amon, the children of malarious districts. Europeans who suffer from severe or repeated malaria are likely to suffer from permanent lil health in the shape of anomia, dyspepsia, or easily induced mental fatigue.

#### Treatment

The traveller in India should endeavour to guard himself against the bites of mosquitoes. this can be done to a great extent by the use of meaquito curtains the meaquito seeking the blood of its victim mainly at night. But when travelling by train protection is difficult when travening by train protection is difficult. There are some doluns which mosquitoes appear to dislike Sprinkling the pillows with lavender water is sometimes efficacious, or smearing the hands with temon grass off.

(amps should not be pitched in the neighbour beach of parties reliable. hood of native villages if it can be avoided. Travellers should provide themselves with thermometer and a supply of quining tablolds

During the cold stage the patient should be well covered, and hot fluids administered, un less vomiting is present Quinne should not be taken in this stage as it increases the dis-

grains of quisine should be given, and repeated ; grains of quality and the strong and reputation in the grain doses every six hours until the temperature becomes normal. Thereafter the drug should be continued for a few days in

tion of quinne These are the pericious tartian fevers which so often cause difficulty not seem to the constant course the course of the course o

akin bemg kept moist meanwhile by a dia phoretic mixture. Some of these fever last for a week or longer but the majority of them yield to quinine in these or four days. It is in such that an early examination of the blood dages of five grains twice a day
culated to ward off a second attack, or at any
substance to reduce its everify and prevent a third
if there is vontinug, quainte tableds are not
likely to be digested and absorbed in such
cases the drug should be given in a mixture
dissolved in a dilute neld. The advantage
of quinine tableds is that the unpleasant tasts
is avoided.

Severa continuous

seven when apparently given with every care
weapared by Messrs quantum rejections taken from Stock SoftEnds even when spparently given with every care. The vaporoles prepared by Messrs Burroughs Welcome & Co which consist of little giase capsules containing preparations of the drug dissolved in sterile and non irritating found appear to be absolutely deposit of the second secon

#### TYPHOID FEVER

By Typhoid or Enteric Rever is meant a it is kept from contamination by dust, lu continued fever lasting for three weeks or longer the neighbourhood of all native villages the due to the entrance into the intestinal canal of a particular bacillus (the typhoid bacillus) which not only produces serious abdominal brouble but also a motoms inferrible to a generalised infection of the blood by the bacillus and the poisons which it angenders Formerly the sourge of the British Army in India es-pecially among the younger soldiers it has been reduced to a very low point through the prophylactar use of Sir Almroth Wrights vaccine continuous attention to the sanitary condition of the soldiers quarters, improve-ment of water supplies and skilful medical trestment

is a term applied Paraty phoid certain fevers which have all the characters of typhoid but with a rather lower mortality, and which are due to infection by bacili which are closely related to the typhold baolilus.

fact that typhoid more frequently attacks the new arrivals to the tropics renders this disease one of the risks which founds have to face but this can be minimized by knowledge of the manner in which the typholo bacillus affects an entrance into the system Typhold Fever has now been shown to be a

common affection among Indians contrary to what was held some aftern years ago in Bengal and the Punjab according to Leonard Begers and in the Tropics; the maximum of cases for all classes coours during the bot months, while the maximum for Bombay 18 m the rainy season But taking the European cases only he finds that the largest number of cases falls within the dry ool and hot seasons and considers that this is due to the European being most frequently intected through contaminated dust, this class of person paying greater attention now a days to the condition of the water which he drinks unlike the Indian who will drink water out of the

soil is laden with animal dejects which of course is very likely to be associated with disease producing microbes Hence infection of the tood in cook houses and shops is easily pro-duced by the wind carrying the dust from latrines and other foul areas. Uncooked vegestables produced from gardens watered by sewage-containing field are also very dangerous, and should be avoided by the Indian traveller Lastly oysters taken from estuaries which receive rivers laden with organic matter from the villages on the banks are believed to afford special protection to the typhoid bacillus, and when eaten raw are dangerous.

In many cases the onset of the disease is sudden with headar he shvering and vomiting but in a little less than half the onset is mandious the patient being out of sorts slightly feverish perhaps with occasional looseness of the bowels, loss of appetite and a little sick ness. He ultimately takes to his bod, generally dating the commencement of his illness from this event and there forthwith begins a period of at least three weeks of anxiety for his friends and relatives masmuch as enterio fever as seen among Europeans in India is character used by its greater severity and longer duration ised by its greater severity and longer duration. The temperature rises gradually day by day during the itrs week remains at a larly constant high level during the second, becomes irregular with daily remissions during the third, and in the majority of cases is succeeded by a period of convalencemen, during the first part. of which the greatest care in dealing with the patient is required. The bacillus produces its most important effects on the lower portion of the small intestine certain glandular structures in the wall of the bowel becoming inflamed, enlarged and finally ulcerated. It is on the formation of these intestinal ulcera that many of the worst complications depend. The uf cerative process favours, first a looseness of the industry process involves, that is well known, infection of typical the bowels later an exhausting diarrhosa. Moreover the destruction of some of the coast community produced by contamination of the bowel may open up actionent blood of definiting water Great care is therefore vestel and produce alarming or even fatal measurements. In boiling and aftering diarking bearing hard water and in protecting the westels is which of the bowel may be perforated, causing dealsh from collapse and peritonitis. This is the in aborting the fever but this does not mean danger which the physicism has in view through-that drugs are of no use in typhoid. On the out the case. It can only be guarded against contarry the complications which are many, by the most careful nursing and attention to by the most careful nursing and attention to the detary Other dangers are bronchitis and failure of the heart especially during the third week During the stage of convales cence the same care has to be taken with the detary as the ulcers are undergoing healing and an error might lead to the rupture of one of them when all danger may well be ex-pected to have passed Finally owing to pected to have passed Finally owing rothe depressing effects of climate convaluement is often attended with prolonged mental de pression

In the matter of treatment it is absolutely essential that the patient should have the benefit of skilled nursing Fortunately highl, trained European nurses can now be obtained from any populous centre though on asions arise when the dimand exceeds the supply of populous and light duty respectively. Duless it is absolutely necessary to remove him the patient should be nursed where he falls ill and not sent long distances by train. At the most he should travel to the nearest large town where there is a tivil Surgeon Treatment mainly condits in keeping the feve within bounds, and thereby sparing the strain on the bounds, and thereby sparing the strain on the beart which is great during the three weeks of continued fever. This is effected in great part by the system of hydrotheraps, that is treating the patient by continued tepld baths or by frequent sponging with teplil water to which a little tollet vinegar should be added There is no special drug which is of any use country for pleasure or health

contrary the complications which are many, will be detected as they arise by the careful physician, and there is no disease which tries more than this the skill of the doctor and the care of the nurse who will frequently bring to convalescence what seems to be an almost hopeless case Abdominal distension for in stance, is a frequent and serious complication reanes, is a frequent and serious completation in Indian typhoid, and should be tracted as soon as detected it results partly from the decomposition of the intestinal contents, partly from loss of the muscular tone of the bowel It hinders the respiration and the action of the heart and favours the occurrence of per foration. Diet consists almost entirely of milk either pure diluted with barley water

or where or as a felly Lostly a word should be said about the im portance of typhoni moculation to those in tending to travel in India or the tropics. It is better to have Wright's prophylactic vaccine injected of ore leaving more one it this is not due it is bould be submitted to on artisal in Pembay. In the majority of cases the only discomfort resulting is a little passing tender it is at the site of modulation. In some cases there are a few bours of fever and in the worst the patient feels out-of-sorts for twenty tour hours The ineculation (with a larger dose) should be repeated on the eighth day Attention to thi small precaution as a routine measure would obviate most of the catas to ples which we witness on occasions among globe-tretters who have come to the

#### DYSENTERY

The term Dysentery is applied to several baculary vari by In the amount form there is of infertive inflammation of the large is greater tendency to thickening of the bowel forms of infertive inflammation of the large bowel, in which the principal aymptoms are griping abdominal pain frequent straining and the passage of a large number of evacuations tharacterised by the presence of blood and macus. The changes which take place occur in the mucous membrane of the large bowel. and are first an acute caterrh succeeded by niceration more or less extensive and sometimes going on to gangrene

The disease is endemic in India and is in fact common in Eastern countries and in Egypt It is hable to arise in epid-mic form especially among armies in the field It is caused by a contaminated water supply and by the infection of food by dust and file-Dysentery is probably caused by reversal ta-rieties of micro-organisms but for all practical purposes may be said to be divided into two purposes may be said to be divided into two great groups one due to the amoba of dyeen tery and the other caused by a bacillar dyeen cribed by Sbiga and known as barillary dysen tery. The latter form is more common in Japan and in the north eastern side of the criter by chiga and known as barillary dysen terv. The latter form is more common in a valuable drug has been placed in our hands, Japan and in the north eastern side of the form of emetine an alkaloid derived indian peninsula the amoshe form being that in the form of emetine an alkaloid derived most commonly seen in the Sombay Prei injected into the deeper layer of the skin, dency. The hacillary form is characterised by the presence of a very large number of our tiss unpleasant effects. It is of special or the amoshe form there are estalour more the amoshe form there are estalour more the hours. In the case of children in whom acute of seven in the form of the common twenty evacuations in the day and there is less favor and general depression than in the

wall and to the dangerous complication or sequel of abscess of the liver

After a few days of severe illness should the patient recover there is a danger that the dia reach recover chronic a condition which he a sociated with emaclation and profound wakness. The circulation is also more likely to eventuate from the america type. The irrequency with which it attacks Euro-

peans in India may be judged from the admis sions of the European soldiers into hospital, the

figures of admissions for each of the years 1910 and 1911 being 7 7 per thousand of strength The treatment of the backlary form with an anti-dysenteric serum has had good results In the amorbic form most Indian physicians still rely and nightly so on the use of freeze uanha. This has to be given with particular precautions and with a previous done of option to diminish the liability to vocating Recently thanks to the work of Leonard Rogers

#### ARSCESS OF THE LIVER.

There are several varieties and causes of matter of anxiety but greater precision is now posses of the liver but the term is applied in possestile as we have come to recognise what the single aboses which frequently Rogers has called the presuppurative stage of abscors of the liver but the term is applied in India to the single abscess which frequently forms as the result of ametic dysentery the latter generally preceding but sometime-being concomitant with the formation of the It is one of the scourges of the Euro pean in India, and is especially to be dreaded on account of the high mortality Taking all the cases together including the acute and an the cases together including the score and chronic and all classes of the community the dath rate is shout sixty per cent, but this will probably be reduced by recent improve-ments in the methods of diagnosis and treat-The latest annual report of the Sanl tary Commissioner with the Government of India states that next to enteric fover hepatic India states that have to enterior area increased abscess is the most frequent came of death among European troops, but the admissions and deaths on account of it have decreased greatly during recent years. The report also greatly during recent years. The report also notes that the decrease in the number of cases of liver abscess is coincident with an equally evacuated in some cases without much warn steady fall in the number of admissions to ling and nature thereby effecting a cure. Such hospital for alcoholism

The disease is most liable to attack those who in addition to having had an attack of dysentery have indulged not necessarily to excess in alcohol and general good living and are at the same time somewhat slugged in their than the communication of the communication. habits. It is often preceded by continued outstence fover malaise dyspepsis, and more or less even be a contest on the latter of hepsic organ may be soutely mlarged and very tender the case

amorbic hepatatis which is very amenable to treatment by speachanns or injections of emetine. The use of this method will often prevent the case going on to the dangerous condition of aberess, which when it has once definitely formed can only be dealt with by prompt operation which in itself has a high mortality. Further aid is now obtained by special examination of the blood and by the use of the X rave which will often clear up a doubt ful case

The abscess generally forms in the right lobe of the liver Should it form on the left side it is especially liable to rupture into one

of the internal organs

The same complication may eventuate when the abscess forms on the right side. Here the principal point of rupture is into the right lung the contents of the abscess being suddenly a termination however is not desirable as heal ing will take place quicker by surgical means

There are some abscesses which are exceed ingly insidious, it often happening that patients are sent home with a fever associated with general loss of health and weight where the oxistence of a deep seated abscess ma, not even be suspected but in which the symptoms of hepatic abscess suddenly occur and clear up or the correct diagnosis may obtrude In many cases the exact diagnosis is often a likeli by the sudden rupture as above described

#### PLAGUE

Plague is a disease of very great antiquity | its ravages and symptoms have been described with remarkable accuracy by the old hatomans such as Procopius Not many years ago it appeared to be a disease of hatoman interest comy but the present pandenge which com suched about 1894 has made it a subject of the mistaken by an uncducated population research in portance to the inhabitants of the British Empire It was in March 1894 that it stream to Hongkong in 1894. It generally affects its British Empire It was in March 1894 that it entry by the skin, on which it is deposited by first became prominent in Canton and thereafter it spread to Hongkong, Macao and Pakho and so along the whole of the Southern China Ceast It probably arrived in Bounday in March 1894 and distention of the lymphatics may be noticed but it was not until the end of September that it became noticeable in that part of the nature and pakho was Mandvi in the case of the nature of the probable in that part of the nature of the second but it was not until the end of September that to became noticeable in that part of the native city known as Mandyl. In which the great grain supplies are collected, and wherein consequently there is an enormous rat population. In October of the same year the presence of the petillence was officially acknowledged. Everything which the limited knowledge of the subject at that time suggested was done to check its spread but, in spike of all efforts, the pectilence spread from the infected city throughout the greater portion of the Penisula, and while its ravages of late years have not been so terrible as at its first appearance, yet the descess till. the raveges of late years have not been so terribe infection of the system, in the shape of extreme as at its first appearance, yet the disease still prostration, mental contrasion a furred tongue, taken its annual toil of human life and it has and fever which is generally high. The police apparently become one of the endemic diseases of India. According to the official figures ally in full blooded muscular squite its likely Flagues since its appearance has been resum to be full and bennaling these its appearance. as at its first appearance, yet the disease still takes its annual toll of human life and it has

about fifteen to twenty per cent due to defect in the registration of the causes of deaths and also to the fact that the disease often simulates other maladies for which it is likely mistaken by an uneducated population

and painful ulcer to the nearest group of glands. These will be found to be enlarged and exquentely tender the tenderness being out of all proportion to the size of the glandular en largement and to the amount of local inflam mation. This glandular enlargement is called nation. This glandular enlargement is called the Bubo which has given the name to the most common form of the post—Bubonic

Plague
With the appearance of the Bubo or even a
day or so before it there is evidence of a general There's According to the order and a lay in the product muster state of the policy of the policy of the policy of the policy of the policy of the policy of the cardio-vascular system. The There figures should perhaps be increased by pulse becomes quicker smaller and the heart sounds feeble As the case progresses the the skin. It is an extremely distressing kind primary ulcer will enlarge and become of an angry appearance the flubo will also enlarge patients the state pair is great and nearly all the and the tissues around the inflamed hyurphatics and the tissues around the inflamed hyurphatics and the tissue around the inflamed hyurphatics will be swollen and cedematous 10 thus a fortnight in cases simulating typhold tower and the case round to manned tymposters will be swollen and cedenatous 10 this variety the term cellulo-rutaneous plague has been applied The spreading user which is really a local gangrene has been described us the plague carbunch these forming on the kin of those affected were often referred to by old historieus as a promuent flature in many antient cold mice

These cases however are somewhat un common The usual variety met with is the Acute Bubonic Plague. In this the patient is attacked with fever and all the general symptoms of an acute infertion and on the first second or sematimes the third day of the illness the characteristic bule appears. The common the characterstip bubo appears. The common sate is among the glands of the groin for the reason that these glands recove the lymphatics from the lower limbs and from the lower limbs and from the lower of the rank up to the level of the navel a larger area than that drained by any other groups of clarks. by any other group of glands Other sites for by any other group or guands. Other sites for Bubb formation are the arm pits the glands of the neck those about the angle of the jaw and below the chin and vory rarely the little gland on the inner side and just above the elbow and the small glands belined the knee loth. In some cases generally in association with Buboes in the groin the deep glands of the abdomen can be felt to be enlarged

These Plague Buboes are of different kinds These Plague Buboes are of inferent kinds and it is a matter o some importance in connection with treatment and the outlook as regards recovery to recognic the type of Bubo present in each particular case. The loutmon variety is the softening bubo. The middle bubound is somewhat rapidly and the hard swelling gives place to a soft duighty mass around which is a limited amount of serious effusion into the subcutaneous tissues. I the patient lives till the fifth day or the reabouts this bubo will feel like a tightly sturfed pin cushion or may give the experienced examiner. cushion or may give the experienced examiner the signs that the contents are of a fluid nature On incision puss and shreds of the disorgameed giand will be evacuated and under suitable treatment the cavity though large will heal up within a week or so When these softening Buboes are allowed to rupture spontaneously a large foul cavity is produced such are not unfrequently encountered among the poor who have not received adequate attention during the stress of a plague epidemic

Another variety of bulo obtains when the glands indirect and harden the inflammation being so acute that the blood supply of the part is obstructed and the whole of the affected area sloughs out leaving a large superious ulcer of a very unpleasant appearance These buboes are found where the inflamed glands are bound down beneath tense tlesues as m front of the ears and in the region of the groin To the sais and in the region of an groin To the kind the true indurated bullo has been applied. Another variety the cedoma tous bullo occurs in the neck and the arm pit and in them the serous effusion into the tissues and in seem the service around a loss extent in falls and the mind clears the bubo supportion common type is the essential feature. The whole arm pit or the side of the neck may be passes into a slow convalencement which is distanced by the accumulation of field under sometimes retarded by the formation of chronic

and lastly there are some soft bubbes which about and shrink with the rapid subsidence of the tev r—the shrinking onto The fever continues from the outset with alight emis-sions it is generally about 193° to 104 but hate it may rue to a great height from almost the initial rigor. On the third day the temperature tends to approach the normal and almost immediately rises again Should it rise to a point above that of the maximum temperature proceding the remission the outlook is bad but in cases which are likely to do well it rises to a point which is less than that of the pree-ding maximum and after about three days gradually falls to normal, with slight daily oscillations depending on the amount of the suppuration in the bulboes and their local con dition

It is to be understood that this disease is of such great virulence to human beings on account of the early appearance of the plague becillus in the blood stream that there are many in stances in which death occurs before the bubo has had time to undergo the changes described above or even to form. The more acute cases are also hable to be a typical in their mode of onset Some are taken with a wild delirium in which they are likely to attack those about them others suffer from vomiting of blood followed by rapid fathere of the heart and death prognant women miscarry and practically all of them die and lastly there are cases where the general and local symptoms are slight and vet failure of the heart may suddenly ensue within a few hours of the ensot These so within a law hours of the oneo linese so with at the commencement of every epidemic in some of the descriptions of inclinate epi demics they seem to have been in the majority and it is on account of these that plague epi demies appear so terrible to the occupants of the plague stricken fown Fortunately how ev r there is a large majority of cases which allow some scope for medical skill. The condition of the patient after the full development of the symptoms is always one which gives rise to great anxiety. The mental condition becomes dulled which while it intigates con sign rably the districts of the sufferer is according less an indication of the action of the plague poison on the nerve centres. The eyes are antimed and often acutely congested. There suitused and often acutely congested. There may be cough which is a bad sign as it indicates either a secondary pacumonis or the caset of an acute broachitis the direct result of the failure of the heart. If the latter progresses the breathing becomes more rapid, the pulse weak and almost uncountable at the wrist, the wens and annote dicountable as an wrist, and shin cold and clammy and towards the end covered by profuse perspiration finally the breathing becomes urregular, and after several long drawn gasps the patient breathes his last.

In other cases however improvement starts about the fourth day the temperature gradually falls and the mind clears the bubo suppuabsorance, both attacks of heart failure or of field which contains the plague hacillus in almost pulsification or ulers of the symbol with pure culture. The tever is very high and the inhelds of the whole globe and consequent interference with respectful repersion. In mediate, and less of sight Some recover with permanent death occurs from the second to the fourth day results! enfectbement or persistent tremors A currous fact about pneumonic plague is that of the limbs with difficulty in spraking with one such case is liable to give rise to othern of pleasure as

#### Septicaemic Plague

This term is applied to certain forms of acute plague where bubbes do not form or where there is uniform but slight colorgement of glands in various parts of the body with symp toms of a general blood infection. The term is misleading masmuch as most case of acute is insteading inashinch as most case of acute bubonic plague are really septicasemic from the outset. These cases are either acute, ending fatally about the third day or sconer or are sub-acute, with symptoms almulating typhoid fever ending latally in about a fortnight. In the soute cases large dusky patches of blood offusions beneath the km the so called plague spots, are sometimes found and there may be hismorrhages from the stomach or bowels

#### Pasamonic Plague

rates in the lung and causer rapid consolitation of large patches of the lung issue southered it is at the Bacterological Government La irregularly throughout the organs with a considerable amount of ordena so that the lungs were engoined with blood are large and heavy and the bronchial tubes filled with reddish frothy and the bronchial tubes filled with reddish frothy In this variety the plague bacillus prolife

# DENGÚE FEVER

Dengue fever otherwise known as Dandy fover bless somewhat abruptive and at about this time of Breakbong fever is mather common in India a second such appears most marked over the and is generally present in the larger towns but shoulders and note and, or the backs of the

the work producing cough rapidly of the pulse, the same routes of the same routes are destroyed, and intense pain. Those pains considered the patients chief complaint. It is often overlooked, and intense pain. Those pains considered the patients chief complaint. There is no drug which will cut short the discussion of the back of in some of the points either cylates are generally used and perhaps relieve the pain of the back of the master and sometimes there is no complaint; the pain. This drug should be combined with of pain in the limbs but there is intense pain an ordinary fever mixture large dozes of browning the pain of the back of the padagles and the behind the eyes. The fever lasts for three or four days during which in rare cases there may extra be further symptoms due to the appearance of phis be turner symptoms due to the appearance of the special section of the special section in t

the same type

#### Treatment of the Disease

No serum or autitoxin has so far proved of value in diminishing the mortality of the sick white in diminishing the northenry of the sec-fluch can however be done by medical treat ment. Absolute re the required and the patsent should not even be allowed to at up in bed Drugs which act as heart stimulants are requir ed almost from the outset and frequently these have to be administered by the skin as well as the mouth. The bubors should be formented till they soft in and increed as soon as fluid is formed. For the pneumonic condition the adformer for the preumone sounted the automateration of oxygen gas gives relief. This can be obtained in India without much dufficulty. Careful nursing is resential and field nourishment must be given regularly in an easily as imilable form and complications have to be met as they arise As regards prophy laxis by means of Hadking's Plague prophy

and is generally present in the larger towns but 'shoulders and neels and on the backs of the as it appears in maxiful lorums and vanous wit, arms o els so universal rash It is of a dark ters desorbe it differently its identity is not red colour often very like the rash of scarlet always recognised and therefore, by many fover or it may be like that of measles. With medical men is thought to be less common than it appearance the more severe symptoms sub-its cally is. On occasent it gives rise to very side. During convides cance the patient is much wide-pread epidemics. In 1902 there was an exwhether predicting in 1902 there was an ex-tensive epidemic on the eastern side of the Ladian Peninsula and quite recently there has been a bad outbrest in Calcutta. It is more or of several of the punts atter a shorter or common during the rain weason. The conset is abrupt, with fever slight sore the conset is abrupt, with fever slight sore that the punts are not attack of fever and pain comes on which run-throst producing cough rapidity of the pulse.

mide should be given for the headache and the excruciating pains must be treated with mo

#### CHOLERA.

This is one of the most important diseases peried over the country-side by the returning of fields, having been endeme thereis for many bends of pilgrims. The decation is tritial india instantial of years. It is always present in the from this disease in 1911 numbered three hun country, and countimes extends over large distributions, and country, and countimes extends over large distributions of the other productions of the country when the production of the country was a state of a pilgrimage. Irom which it is discuss to of special importance to the numerous

pligrims both on going to and returning from

It is essentially a water borne disease and the carding cause is the "comms bacillus discovered by Koch so called from its shape when isolated and stained. The dejects of a person suffering from the disease when contaminating the soil are liable to get washed by the rains into some water-upply which may become the source of almost unlimited infection. Such contaminated drinking water is rendered in nectuous by boiling or affirstion through a Pasteur Chamberland filter. The importance of Koch's discovery therefore lay in the recognition of the fact that the poison was essentially water-borne. It can also be conveyed by files settling on food.

The disease has an inculation period of from two to seven days. After a premonitory diarrhes with colicky pains lasting for half a day or longer, the nature of the illiness is an ounced by violent purging and vomiting the former having the pe uliar character of rice-water. The poison may be so intense that death takes place before the purging appears the so-called cholens siccs. In the common form collarse is early and marked the extremitles are blue and cold the skin shrunken the heart weak the surface temperature below normal, though ginched expression of the face with deeply nunk en eyes and the patient endeavours to connunicate his white or fears in a hoarse whis per Hels further distressed by puinful craops in the muscles of the calf and abdomen and there is suppression of the functions of the kinevs Death generally takes place in this the alight state. Should the patient survive he passes into the stage of reaction the unfavourable symptoms disappearing and gradually passing into convalence or recovery of these cases which give hopes of recovery there is a relapse the conditions of the alighd state re-appearing and death taking place. It has recently been recognized as a cause of the dissemination of the lagid state re-appearing and death taking place. It has recently been recognized as a cause of the dissemination of the scales as that patients who have recovered will continue to discharge the bacillus for many weeks.

The prevention of choices lies in attention to water supplies and in boiling and filtering as a matter of routine in Indian life. All the discharges from the sick ahould be treated with disiniectant and solled dothing and linen destroyed. Peuple who have to four in choices stricken districts or who go on shooting excursions or who find themselves in the midst of a choicea outbreak should undergo inoculation are required the second being more intense in its effects. The temporary symptoms which may arke after the inoculation are cometines every being always more marked than after inoculation against typhoid but the protection afforded more than makes.

During the cholera season the mildes cases of diarrhoss should be brought for treatment to a physician, as such persons are more liable than others to contract the disease

Treatment mainly receives itself into moreting the extreme collapse with stimulants and warmith. There is great temptation to administer optime but un some cases this is not unattended with danger and in others there is no capacity lest in the patient for the absorption of drugs administered by the mouth. The mortality has however been reduced by the injection of saline finld into the skin or directly into the velocity and also by the introduction of saline field of particular strength into the abdominal cavity.

#### Rais-Azar

This is a slowly progressive disease associated with great enlargement of the spieme and some enlargement of the liver extreme emaciation and a fever of a peculiar type characterised by remissions for short periods, and due to infection by a parasite of remark able characters which have only recently been worked out. It is attended with a very high mortality about 96 per cent and has up to the present resisted all methods of treatment although some pattents appear to improve for a time only in the majority of cases to relapse later.

It is endemic in Assam from which it has hvaded Rengal, and is now often seen in Calcutta. It is also fairly often met with in Madras though it is said that the cases are imported ones. It is very rarely seen in Bombay, and then only in immigrants from infected local titles though there appears to be a mild endemic centre in Jabalpur in the Central Provinces so it is likely to be more trequently met with on the western side of India. It has caused great mortality among the coolles on the tea plantations of Assam, wapedaily among the children but under the recent measures in prophylaxis which have been put into fore since knowledge has been acquired about its real nature and nethod of spread the avages of the disease are likely to be limited. It is very rare among Europeans and then almost entirely among those who have been fong in India or who have been born and bred in the country.

Infection seems generally to start in the cold weather There is fever with rigors, and progressive wasting and loss of energy The temperature chart is a curious one, the fever showing two remissions during the twenty four hours. Diarrhesa is common especially during the later stages of the disease. This appear enlarges early and is generally of enormous size producing bulging of the abdomen A remarkable feature is the tendency to the formation of ulcors which in many cases especially in children takes the form of a gangirenous ulcoration of the mouth and check. Death muchly cours from some intercurrent inflammatory condition often preumonia.

The parasite is found in the spisen and liver during life and can be obtained by puncture of these organs as thus obtained it is a minute round body of special characters. In this state it is known as the Leishman Donovan body from its discoversors This small body has been cultivated by Leonard Regers in substable media and under low teraperatures, and found to develop into a fiagraiated, that is tail possessing organism. How this peculiar

organism develops outside the human host Patton has succeeded in developing the flagel is not yet completely known. It is certainly late stage in this creature when fed on the a conse-infection which accounts for the blood of the sick.

There is a severe form of ulceration of the

There is a severe form of ulceration of the skin known as Delhi Boli "from which organisms very similar to the Leishman Donoswept of, one member after another it is skin known as Delih Bol. 'from which pregress has been stayed by moving families of staker infected houses and burning down van body were obtained many years ago their former quarters. This, and other facts connected with its spread, have suggested the human host and found to develop into a that the agont for conveying the polson from fingellated organism. The two paradites though man to man is the common bed-bug and closely allled, are nevertheless distinct

#### DRUG CULTURE

reso come no constructe or exploited. The following are given at those that could be grown in quantity and as worthy of the attention of cuitivators and capitalists.—

Belladenna, most of which is still imported grows well in the Western Himalavas from Simils to Kashmir the Indian grown plant con taining 6 4 to 0 45 per cent of alkaloid

Digitalis is quite scelimatised on the Nilgiris growing there without any attention The Madras Store Department obtains all its re quirements from Ootscamund, and the leaf has been found equally active to that grown in England.

Henbane is a native of the temperate Him alayse from 8 000 to 11,000 ft. It was introduc ed into the Botanic Gardens Saharanour m 1840, and it has been steadily cultivated there up to the present time, and the products supplied to medical depots satisfy the annual demand.

Ipecacuanha has been raised with a small measure of success in the hilly parts of India, and it only requires care and attention to raise it is sufficient amount to make it commercially remunerative

Jalan-root grows as easily as potatoes in the Kilgiris, and there is no reason why the appeal requirements (about 4 000 lbs) for the Madical Stores of Bengal, Bombay and Madras should not be obtained from Octacamund

Mr Puran Singh discussed the subject in a

Two monographs on the cultivation of drugs in India, by Mr David Hooper of the Indian Museum, Calcutta, and by Mr Puran Singh of the Indian Forest Department Debra Dumbare lately been published Mr Hooper in the paper states that one-half of the drugs in displaying the proper states that one-half of the drugs in the British Pharmacopois are indigenous to the Bast indiges and nearly the whole of the drugs in the paper states that the whole of the proper section of drugs is that a regular supply of the Bast indiges and nearly the whole of the paper standard guality is assured from the proper section of the paper states that the whole of the paper section in the quality of wild grown drugs. genous to India could easily be made to grow in some part or other of this vast land. The great some part or other of this vast land. In great advantage accruing from the systematic cultivation of drugs is that a regular supply of genuine drugs of standard quality is assured. The variation in the quality of wild grown drugs is sometimes a very serious drawback to finding a profitable market for them. The quality of a profitable market for them The quality of Podophyllum Emods growing wild in India is an illustration in point. This plant was discover ed by Sir George Watt in the year 1888, and now even after twenty four years in which it has been shown to be identical with the Ame rican drug that is being employed for pharms ceutical purposes, it still remains unrecognised by the British Pharmacopula, which, as ex-plained by the Chemist and Druggest some time ago is solely due to the uncertainty which still exists as to its physiological activity

Mr Smgh also points out that the Indian consumers of medicine depend mostly on herbs growing wild in the Porests the more import ant of these probably numbering at least 1 000 This inland trade is very large, the possibilities in the Punjab alone being put at Rs 50 00 000 He mentions saftron liquorice, and salep as products exotic to India, whose cultivation in this country looks full of promise Mr. Singh suggests that a complete survey be made of the extent of the inland trade in medicinal products found growing wild in Indian forests in order to arrive at the figures of annual con sumption and that the forest areas where the most important drugs grow should be preserved. Inquiries should be instituted as to the best methods of cultivation and if need be, the means of extending the artificial propagation it is to provide data to induce the private capitalist to embark on such enterprises that Mr Mr Puran Singh discussed the subject in a I it is to provide data to induce the pursue remainer of the 'Indian Forester in 1914 be explicit to emback on such enterprises that Mr states that mest of the drugs in the British Phar majoratis grow wild in India, and that there is to go into the matter. He suggests that India already a large export trade for some of them is well worthy of attention by those in this countries adde, however that materials collected at try who are interested in extending the culture of drugs in the British Empire The Forest of drigs in the British Ringher The Forcest pepartiment has already begun the cultivation of Indian podophyllum root in the Punjab, United Provinces and the North Western Frontier and soveral maunds of dried ribisome are sold annually for local consumption Mr Hooper also shows that a start has been made in regard to the cultivation of belladonna, ben bane and digitals One of the principal diffi culties to be overcome is to ensure a ready mar ket, and there is also always the danger of over production to be considered

#### Essential Oils.

SANDALWOOD OIL is by far the most, tuportant purfumery product of India. The sandalwood tree is a root parasite, obtaining its nourishment from the roots of other trees by means of suckers. It grows best in loose volcanic soil mixed with rocks, and preferably ferruginous in character Aithough in rich soil it grows more luxuriantly less scented wood is formed and at an altitude of 700 feet it is said to be totally devoid of scent. The but yield of of its obtained from trees growing at an attitude of 1,500 to 4 000 feet but the tree requires plenty of room so as to enable it to select vigorous houts to fred it.

PALMAROSA OIL also known as Indian geranium or "Turkish geranium oil is anothar of the rincipal pertine products of India. It is derived from the grass Opmbopogon Martini, which is widely distributed in India where is known as Motya (Hugergrass is an old of letzeig could be completed from a cold of letzeig could be completed.) of interior quality possibly derived from older grasses or from a different variety of the same species Both oils contain geranici the pro-portion m palmarcea being from 75 to 95 pr cent and in gingergrass generally less than 70 per cent These oils are used in soap, perfumery and to scenting heir oils and pomades.

LEMONGRASS OIL is derived from Cymbopogon trata, and Cymbopogon Resumus The former entratus and Cymbupogon Rezumsus. The former is a native of Bengal, and is largely cultivated all over India but the oil distribed on the Malabar Coast and Cochin is derived principally from C flexuosus

VITIVER OR CUS-OUS is a perennial grass VITIVER OB OUB-OUR is a purchase panel Vethera rivanodes found along the Coronandel Coast and in Mysore Bengal and Burma, in most heavy soil along the banks of rivers. The leaves are practically odouries and only used for thatching and weaving purposes. The rosts are used in perhaps and in the manufacture of mats and bankrés.

THE MALABAR CARDANOM Eletteria carda momune is the source of the seeds official in the British and other Pharmacopoelas Cardamom oil of commerce is, however not distilled from this variety on account of the high price but is obtained almost exclusively from the long cardanom found growing wild and cultivated in Coylon The oil is used medicinally as a carminative and is also employed by perfumers in France and America

clothes from the attacks of insects. Its odour resembles that of orris root.

BLUMBA BALSANTFERA is the source of the Nagai camphor used in China for ritualistic and medicinal purposes. This shrubby composite is found in the Himalayas and is indigen-ous to India It is widely distributed in India ous to India It is widely distributed in India and is used by the natives against flice and other insects

EUCALYPTUS plantations are situated chiefly EUCALYPTUS plantations are situated chiefly in the neighbourhood of Octacemund Coopour, and Wellington at elevations varying from 5.500 to 8.400 feet the best being at from 7,200 to 8.000 feet. The climate of this region is fairly cool, equable and moist, with a well distributed rainfall of about 50 with 50 to 100. with a well distributed rainfall of about 50 to 80 inches although frosts occur, the winters are mild on the whole and anow is unknown. The soil a red clay overlying gnelssose rook, is the and deep in some parts shallow and poorer in others. A large factory is being buff, for the distributed of encalyptus oil at Ootscamund. It is believed there is a considerable string for the underthing craft of the considerable. future for the undertaking provided a sufficient

#### Manufacture of Quinine

Government Cinchons plantations were started in India in 1862 from seed introduced by Sir Clements Markham from South America. by Sir Clements Markham from South America, of which the plant is a native. There are two main centree, Danjeeling and the Nilgiri Hills. In both localities a portion of the area is owned by tea or coffee planters and the bark they produce is atther sold to the Government or exported Several species of anchona are cultivated in India namely Cinchona security (red bark) C cultage and ledgeries (yellow back) and C officensits (crown bark) The commonest species in Darpeling is C ledgeriesa and in Southern India C officensits A hybrid from is also largely grown and vields ladgerana and in Southern India C officensiss A hybrid form is also largely grown and yields a good bark At the Government factories both enchous febriluge and quinine are made. Thanks to these factories practically no quinine is nowadays imported for Government **DUITDORES** 

THE REPORT OF THE GOVERNMENT CINCHONA plantations and factory in Bengal published in July 1915 shows a remarkable record of progress achieved since the Department was re organised ten years ago In 1985 the maxi mum annual yield from bark on the plantation fell short by 6 000 lbs of the annual demand which then stood at 15 000 lbs fo-day the possible and on oclasion the actual annual output of the factory is 50 000 lbs of quinine On the whole plantation the net area under circhona has increased from 1 737 acres to 2 552 acres Tina annual possible harvest has increased from about 300 000 lbs of 2 5 per cent bark to 1 000 000 lbs of 4 5 per cent bark. and this quantity is assured for many years to come The extraction efficiency of the factory plant has been raised from not more than 75 per cent to 95 per out of the possible, while COSTUS ROOT (the root of Saussuras lesses) the manufactured cost of quintine has been relief as a native of Kashmir where about 2,000,000 the manufactured cost of quintine has been relief to the manufactured cost of quinting the same relief to the manufactured cost of quinting the same relief to the manufactured cost of the manufactured cost of the least of the manufactured cost of the manufactured cost of the manufactured cost of quinting the manufactured cost of quinting the manufactured cost of quinting the manufactured cost of quinting the manufactured cost of quinting has been relief to the manufactured against of having quinine, locally produced from chemical, made up in 7-gram packets and aski (since 1896-7) for a quarter annual faces in the produced from the first of the produced from the first of the critical to the continuous describing at every post office in India attents has groved a commercial success, and has been of immense benefit to the india from the growth those of language in the figures ruling three years ow with those of the growth of the growth those of the growth of

The Ominisc Ring—A report issued in April, 1914 by the Superintendent of the Exyral Botanic Garden Calcutta, states—"Towards the middle of 1912 negotiations were "Mowards the middle of 1812 negotiations were commenced between the Java planters who produce about 80 per cent of the world's bark and the European bark importers and quinine manifacturers with a view to an agreement as to the minimum unit price to be given for bark. The price of quinine in the bark had been going down steadily for a number of years, and had reached a point that threshold the conversion of much cuchons. threatened the conversion of much chronous hand in Java into coffee, the or snagar producing stream. At present the negotiations between these bodies still drag on, but it seems probable that an agreement will be arrived at whereby among other coaditions, the minimum rate for bark will be raised to 5 Dutch cents per unit." The quantum range some an established fact. The effect of this agreement may be far marked to Atree less three a very small production. fact. The effect of this agreement may be far fact to 8. The present price is so infisted that reacting. After less than a year's working reaction is bound to follow and at the time the price for bark rose from the minimum of writing the price has fallen to 4s due to the facults imposed to 3 20 Dutch cents per unit. Government having prohibited exportation

"Some kies of the extent to which the price of quithine has men is obtained by comparing the figures ruling three years ago with those of to day. From January 1909 to April 1912 the terman makers prices romained stationary at 74d per os and in 1911 German brands mecond hands sold as low as 6d while Java quinine was down to to 54d per os these being the lowest on roomd. The depreciation was due to three causes ear unchecked bark production high average, quinine-content of Java bark and the failure of all efforts to bring Java bark and the failure of all efforts to bring about an understanding among the planters In July 1918 an agreement was arrived at and a general improvement was affected from that time until August 1914 when the price of quinine sulphate stood at 1; 1d and second hands at bout 1: 2½d During the first twelve mouths of the war there was no speculation m the article but now a few daring operators have been buying and selling some of them have made thousands of pounds per day and they are assisted by a number of smaller opera tors The situation, therefore he never been more favourable from a "bull point and speculators have successfully availed themselves of it by driving up the price from 1s

# Calcutta Improvement Trust

The Calcutta Improvement Trust was instituted by Government in Fanuary 1912, the in the neighbourhood of these roads should be preamble of the Act by which it is founded acquired by or for the Trust and would be running as follows — Whereas it is expe preamble of the Act by which it is founded running as follows — Whereas it is expedient to make provision for the improvement dient to make provision for the improvement and expension of Calcutta by opening up congested areas laying out or altering streets providing open spaces for purposes of ventilistion or recreation, demolishing or construct, and by this means would serve the buildings, acquiring land for the said purposes and for the re-housing of persons of the providing private owners were constructed power and working classes displaced by the execution of improvement schemes

The origin of the Calcutta Improvement Trust must as in the case of the corresponding Bombay body upon which the Calcutta Trust was to a large extent modelled, be looked for in the medical enquiry which was instituted into the sanitary condition of the town in 1896 owing to the outbreak of plague. In consequence of the facts then brought to light, a Building Commission was appointed in April 1897 to consider what amendments were required in the law relating to buildings and streets in Calcutta That Commission recom streets in Calcutta That Commission recom-mended certain attentions in the law and further suggested that a scheme should be prepared for laying out those portions of the town which were sparsely covered with ma-somry Wille mable to go into details, they recommended that in quarters newly laid out the roads and open spaces should occupy at the roads and open spaces should occupy at least as much ground as the building areas. As regards existing axis they thought that it was impossible to demoish any consuderable portions of the City All that could be done was to open out a number of wide streets and some open spaces. The flovement of Bengal some open spaces The Government of Bengal when it proposed to give effect to the recommendations of the Commission adopted as the work to be done a seiteme for constructing and improving 164 miles of roads which had been drawn up by the Commission This schem formed the basis of discussion this 1904 when a Conference was convened by Sir Andrew Fraser then Lieutenant-Governor of Bengal It was estimated that the Trust might in the ensuing 80 years have to provide for the housing of 225 000 persons who would occupy 2 000 acres. The population of Calcutta proper or x25 000 persons who would occupy 2 000 acres. The population of Calcutta proper which includes all the most crowded areas was 649 995 in 1891 and increased to 801 251 or by 25 per cent by 1901. The corresponding figure according to the 1911 Ceneus was 890 067.

The Conference of 1904 recognised that in view of the peculiar attuation of Calcutta, which is shut in on one side by the Hooghly and which is abut in on one side by the Hooghly and on the other by the Sait Lakes, it extension in a regular zone is impossible. The Conformer after carefully considering the question came to the conclusion that arms or promonomies should be thrown out in five directions on the north, north-east, south and south and south west In these promonomies; the way to forever that arms and a court went that arms on the contraction would take place about the lives. expansion would take place along the lives indicated by certain roads. It is for this reason that the Government of Bengal made

The Art provides for the appointment of a
the groposal that the Trust should have power
whole time chairman of the trustee and the
to project roads to the outsidities of Calcutta

The recommendations of the 1904 Conference eventually took legislative form in a Bill introduced in the Bengal Legislative Council in August 1910 This measure was built up on the recognition by the Government that the 15 miles road scheme only touched the fringe of the question of overcrowding and sauth from The Bill therefore provided for a scheme of greatly enlarged scope. The amount of money required was roughly estimated at Bs. 8 22,00 000. It was recognised that a Ryad deal more could be apent with advantage, and the figure was not put forward as representing the actual cost of any definite scheme, but as a rough estimate of what would be required for any scheme of what would be required for any scheme of wide and permanent utility. The total sum was divided into Es. 800. 15 miles road scheme only touched the fringe utility The total sum was divided into Ra 500 lakks for new roads Rs 172 lakks for open spaces and Rs 150 lakhs for housing and ex spanses and he loo hand for housing and ex-pansion Of these sums Rs 385 lakes were to be recovered by recoupment, 50 lakes were granted from Imperial revenues, and the remainder was left to be raised by loans. The sanction of the Secretary of State was obtained for the proposals generally on the understand ing that the scheme of taxation would be for ing that the softene of taxation would be for 60 years. The Legislative construent while based on these calculations does not actually refer to any limit of expenditure. But the Act provides a special system of taxation to the service of the leans, amounting to Rs. 436 lakhs involved in the scheme For this service. an annual revenue of 19 65 lakhs was required and to this have to be added 1 25 lakhs for working expenses and contingencies bringing the total up to 20 90 lakes. To provide this revenue the art provides for the levy of special taxes as follows -

- A two per cent stamp duty on the value of all immoveable property transferred by
- A terminal tax of one anna on every passenger by rall or steamer arriving in the city of this is not to be levied on pas Calcutta sengers from within a radius of 80 railes of Calcutta
- A customs and excise duty not exceeding two annus per bale of 400 lbs on raw jute
- A two per cent consolidated Corporation rate and
- An annual Government grant of a lakh and a half

The Act provides for the appointment of a whole time chairman of the trustees and the

part of the members being nominated by Gov ernment and others elected by local bodies whose interests are most nearly concerned

The following are the present Board of Trustees—The Hon ble Mr C H Bompas, ICS Chairman, The Hon ble Mr C F Psync, ICS Chairman of the Culcutta Municipal Corporation (crofficio) The Hon ble Kaja Recher Came Law Olk elected by the Corporation The Hon ble Rai Radha Charan Pal Bahadur The Hon ble Raj Radha Charan Pal Bahadur elected by the Ward Commissioners Dr Charles Banka, elected by the Commission on appointed under Sec 9 (2) of the Calcutta Municipal Act, 1899 Mr W K Dods, elected by the Bengal Chamber of Commerce The Hon ble Ban Sitauath Raj Bahadur elected by the Bengal National Chamber of Commerce Bir R N Mookerjee, R.O.I.R., Mr F H Stewart C.I.R., the Hon. Mr H. J Hillary and Mr R Anderson, appointed by the Bengal Government ernment

#### The Board and their Work.

It was impossible to settle in advance the exact projects to be undertaken by the Trust All details of these were, therefore left to be worked out by the Trust after its constitution wormed our by the frust array its constitution. Government exercising control by having all the individual schemes sent to them for approval before execution. The frust did not enter on a virgin field. The Municipal Corporation had previously dealt in some measure with the problems they were appointed to solve and the Trust started work with the initial branch of this process. benefit of this previous labour flus the Corporation had aligned many roads and this work was useful to the Trust, though in some cases modifications were necessary

The work upon which the Trust are now definitely embarked may be divided into three classes as follows -

Many parts of Calcutta are over crowded with buildings and ill provided with roads These areas are to be re-arranged both on the ground of sanitation and for convenience of traffic

Population will continue to throng into the overcrowded parts unless it can live on the outskirts and at the same time have

There is the question of providing for the population displaced by improvements and still more important of providing for the natural growth of population by laying-out roads and building sites on sparsely populated areas on the out skirts of the town When persons of the working class are displaced or likely to be displaced the Trust can build dwellings through the provided the trust can build dwellings in the health of Calcutta is of the standard according to which they regard their re housing problem in Calcutta is of the common provided that the common provided the trust can build dwellings in the health of Calcutta is only apparent, for them if private enterprise does not such that the common providing to the rise in the removal of business and the population of the calcutta is only apparent, the sunday measures of the Corporation to the removal of business and the population of the calcutta is only apparent.

#### Engineer a Survey

The Trust perceived at once that the problem of providing improved traffic facilities for Calcutta and its suburbs must be dealt with as a single problem and by a single mind first duty set by the Trust to their chief engineer was, therefore to prepare a scheme of main reads of primary importance. The chief engineer Mr. R. P. Richards, M.10.5., &c. devoted his whole attention to this task and devoted his whole attention to this task and his report was assued early in 1914 Mr Richards report, which was accompanied by maps and numerous photographic illustrations, made a volume of 400 closely printed flookscap pages He found Calcutta a city which is in a very much more than ordinary bad way, and early discovered the serious fact that the Calcutta Improvement Act of 1911 was almost necless for the great task set to the Trust The Trus was not constituted under a Town Planning Act but only under a local Housing Act so that "Calcutta and her suburbs cannot possibly be jointly planned or controlled, or be moderately in planned of controlled, or be moderately in proved, inder the existing improvement Act for Richards report deals with the general conditions and needs of the city and the gene-ral policy of reform, with the general legislative and financial aspects and with the main pro-gramme of work. He discusses the Calcutta of to-day showing the chief faults as to which improvements are required. A comparison is made between Calcutta and other cities, by way of illustrating Calcutta needs and in this way of illustrating Calcutta needs and in this manner finance, roads and streets per square nile road and street widths, percentage of open spaces, transway mileage per head of population, the status of the city as a port, and so on, are fully dealt with an important chapter deals with the Calcutta allums and makes recommendations as to what should be done in regards to them. Another chapter discusses the general problem of city improve-ment and another is devoted to suburban planning and developments.

#### Improvement Schemes.

The Engineer submitted early last year an interesting report on the widening of Howah Bridge Meanwhile, the Board undertook certain overcrowded parts unless to can live on the outside outsides and at the same time have aspeedy access to the business centree of the turn quick traffic can only take place along broad roads will at the same time have into of broad roads will at the same time at the overcrowded parts of the town and it has been recognised from the outset that the construction of broad roads will at the seame time ventillate the overcrowded parts of the town and it has been recognised from the outset that the construction of broad roads will at the seem temperature of the buildings designed resemble thown and it has been recognised from the outset that the construction of broad roads will thus secure a double object. The population displaced by improvements and still more important of providing for the natural growth of population plans.

istion which occupied the bustees does not find healthler accommodation in the same their 1914 report "that the buildings would locality but moves on to even more insentiary bustees in the suburban municipalities. The Board of not santicipate nor do they dealte that the chawl should become the usual dwelling for the poor of Calcutta, but it may be suitable to some classes of its heterogeneous rows. to some classes of its beterogeneous popula ton and especially to those who come here for work, leaving their families behind its sery difficult to see what other class of build ing can be erected by the capitalist where land ing can be erected by the capitalist where land costs more than Be 600 a cottain. On really cheap land it is possible that good results could be obtained by armaning for the construction of sanitary business the Board merely laying-out and draining the site and controlling the class of but created. The Board under took the erection of three blocks of buildings as an experiment. The cost of the land worked out at Rs 882 a cottah. It is recognized in Rng land that the working classes cannot profitably be housed on land costing more than ±300 an pre noused on some cosing more than 2500 and seventeen improvements hence were published or Rs 75 a cottab. There will, thered by the Board no to the end of the last fore be a loss on the calculus experiment, as official year including eleven schemes published was anticipated by the Board from the outset last year.

cheaper than anything of the kind hitherto erected in Calcutta and applications received above that there would apparently be no difficulty in filling a building with tensaits of the Bengali middle class, if the whole building the theory of the control of the c or the two upper storeys of each block were exclusively received for their use. The Board however consider that it is most important to ascertain what rent can be paid and what accommodation is required by the artisan and labouring classes. They have, therefore decided to let the rooms at lower rates to artisans decided to let the rooms at lower takes to artisates and labourers and if the buildings once become popular it will doubtless be possible to rease the rests at a later period."

Seventeen improvement a hemes were publish-

#### BOMBAY IMPROVEMENT TRUST

Bombay is an island twelve miles long but man and members of the Trust are as very narrow and containing only 22 square miles follow --verv narrow and containing only 22 square mass attogether but in the city occupying libtle more than rail the Island there lives a popu-lation enumerated at 972 892 and actually totalling over a million Bombay is, in point of population the second city of the British Empire Seventy-six per cent of its million people live in one-roomed tenements. Imagine the terrible conditions of overcrowding and lack of sanitation which these facts imply and you have the reason why the severe meet of plague seventeen years ago led to the formation to the In provement Trust, for the special to the Irr provement Trust, for the special purpose of amellorating the sanitary condition of the city Plague was imported into India from the Far East and was first discovered in Bombay in 1896. There was a great panic among the population Every bouse had its victims most persons attacked died. There was a general flight of the population to the country districts. It is estimated that nearly half a million so fied. Grass grew in the principal streets. These circumstances directed the attention of the authorities as nothing else could have done to the problem of bringing the development and housing arrangements of the city into line with modern requirements. It was at once recognised that the task was too great for the Municipality and a special body, termed the Trustees for the Improvement of the City of Bombay was appointed it consists of 14 members, of whom four are elected by the Municipality and one each by the Chamber of Commerce the Millowners Asso. Chamber of Commerce the Millowners Asso-ciation and the Port Trust, and the belance nominated by Government, or sit sz. who is either a covenanted civilian or an officer reclaim is not the Public Works Department, and he is for expansion and construct sanitary dwel also head of the executive. The present chair—lings for the poor

Charman-

The Hop Mr J D Orr OSL LOS.

Ex-officio Trustess-

Brig General C W Knight DSO, ADC General Officer Commanding Bombay

Mr A H A Mimcox 108 J.P., Collector of Bombay

Mr P R Cadell, Q1.B 108 JP., Municipal Commissioner

Elected by the Corporation-

Sir Bhalchandra Krishna Bhatawadekar Kt lu j.p

Mr Dinsha Edulit Wacho, JP

The Hon ble Sir Ibrahim Bahimtoola, Kt clr J.P

Mr Nowroji Jehangir Gamudia, JP

Elected by the Chamber of Commerce— Major H A L Happer R.E., J.P

Elected by the Port T enter-The Hon ble Mr F L Sprott, JP

Elected by the Millowners Association-Sir Sassoon David, Bart., JP

Nominated by Gorernment-

Sir Vithaldas D Thackersey Kt J.P Mr A M Tod JP

Mr A H Whyte JP Executive Engineer Presidency

The specific duties of the Trust are to con

# The Sanitary Problem.

Bombay city grew on haphanard lines becase being added as population poured in with the growth of trade and without any regard to town planning or the santary requisionents of a great town The price of land was always compentatively high, owing to the small area of the sland, and while the builder had only one object in view namely to collect as many rent paying tenants as possible on the smallest possible piece of land, there were no proper restraints to compel him to observe the most ordinary rules of hygiene.
The result was the erection of great houses sometimes five and six storcys high, constituting mere nests of rooms. There was no tuting mere nests of rooms. There was no adequate restriction as to the height of these adequate restriction as to the neight of these chawls, or the provision of surrounding open space, so that the clementary rules as to the admission of light and air went unobserved and the house builder invariably erected a building extending right up to the marginal his site Consequently great houses accommodating from a few hundred to as many as four thousand tenants were built with no more than two or three feet between any two of in the Trusts revenue, so that in 1913 after them and with hundreds of rooms having no the amendment of the finencial classes of the opening at all into the outer air

The Trust has practically reconstructed large areas on modern sanitary lines but the old municipal by laws having unfortunately remain ed quite inadequate for the requirements of the city the I rust have spent inlicens sterling of public money in sweeping away abuses while unacruptions is modernia, still unchecked added in the same old manner to the insunitary conditions of the place. Thus the Trust acquire connections of the place. Thus the Trust acquire and destroy meantiary bouses on a certain area and lease the sites and permit new bouses to be built on them subject to the reservation of a certain breadth of open ground round the edges of the site to provide for the necessary angle of light and air for the lower rooms of the new building. But bordering on this area there will be old houses that were not sequired as part of the improvement scheme and the municipal But bordering on this area there will by-laws have allowed the owners of these to increase their height by as many storeys as they the admission of light and air upon which the Trust had just poured out money The private landlords have taken the fullest advantage of the loophole The amendment of the March. renducing have taken the fullest advantage of vember carried a recommendation of their the loophole. The amendment of the Municipal Improvements Committee to ask their solicitors by laws as as to our each abuses has been to draft an improvement of the Improvement for many rear and improved by laws have been similar to those provided for the formal years and improved by laws have been similar to those provided for the frequency of the property of the most provided for the frequency of the fourier of the frequency of the fourier of the fourie by the Municipal Committee

### Finance.

The work with which the Trust was charged was bound to prove unremunerative, with the exception of reclamations from the sea, and at the outset, therefore, certain Government and Municipal lands were vested in the Trust and Municipal lands were vested in the Trust task usufruct of which it sulpsys and the Trust task usufruct of which it sulpsys and the Trust task the outset received a contribution from Act which, as just mentioned was passed by municipal revenues not exceeding 2 per cent the Provincial Legislature. The main object on the rateable value of the property sessessed of the Bill was to simplify the financial arrange for taxustion In practice, the works are ments between the Government, the Runfel Sinkneed out of 4 per cent loans, which are pallty and the Irust and make them more

quaranteed by the Municipality and the Government, and the revenue of the Trust is used to meet interest and ainking tout desired. The Trust proceeding or these lines, found itself in 1910 at the end of its resources when the Trust was constituted it was entimated that the usufruct on the public land vested in it would represent a contribution of Rs 96 00 000 (2840 000) from the general taxpayer But in practice this was reduced to less than Bs 45 00 000 (2286 666) The Trust found itself with unpledged resource estimated at only Rs 16 00 000 (£106,660) The Government of India come to its assistance with a cash grant of half a core of tupes with a cach grant of half a crore of rupes (2335 000) given out of a budget surplus aperual legislation was carried through the Bombay Legislative Council in 1913 to increase Rombay Legislative Council in 1913 to increase the advantage of the Trust from Provincial and Munkerpal appropriations, and legislative measures are now in properse to enable the Trust to raise maney by special local taxation in Bombay. The cautious estimate of Rs 16 00 000 also proved to have been below the mark. In the years following 1910 when the estimate was made, there was an improvement to the Trust, revenue on that in 1913, after Act and the grant of 50 lakes by the Government of India, and in spite of important addi tions to the Trust's sanctioned programme the financial forecast showed that the margin for expansion had increased to Rs 95 lakhs Inac much as the whole of this sum was required for completion of the Eastern Avenue, it was still necessary that the Trust should be provided with further funds for direct expenditure on improvement schemes. To this end a Bill was improvement schemes. To this end a Bill was introduced into the Bombay Legilative Comult on 16th December 1913, providing for the levy of a surfax in stamp duty on conveyances of property in Bombay and for the payment of the next proceeds to the Trust. The Municipal Corporation however protested against the raising of the necessary minds at the expense of the property owners of Bombay and sugges ted, as they and the Trust had already sugges ted in 1911 that an expert duty on bales of ootton exported from Bombay should be levied instead. Government aunounced at the March, Act for the housing of the working classes to acquire parts of houses to remove obstructing. houses, and to levy betterment contributions from houseowners who benefited by such improvements, the aim of this amendment being to enable the Trust to deal with areas represent d for improvement by the Municipal Corporation without the great expense of total demolition procedure

favourable to both the local hodies Under the old Act, as already mentioned, the annual Municipal contribution to the frust was an indefinite sum limited by a maximum of 2 indefinite sum limited by a maximum of 2 per cent on the Municipal assessments of the year. Under the Amended Act the Municipal contribution is a definite share of the years general tax receipts, approximating to 2 per cent on assessments and subject to no maximum and the Trust keep their profits for their own use. Under the original Act the Trust had from 1909 onwards to pay to Government and the Municipality 3 per cent per annura as interest on the schedule value of the 60 vernment and Municipal lands vested in them while Government and the Municipality ware while Government and the Municipality ware while Government and the Municipality were at liberty to resume any unlessed vested lands for public purposes without paying compensation except in respect of capital spent by the Trust in improving them. Under the amounted Act the Trust have no interest ing amended Act the Trust have no interest; to pay and Government and the Municipality must, on resuming vested lands pay the Trust their full market value. There are other no difficulties of the hamilal bruefit of the Trust. The new Act makes the Municipality this retersioners of the Trust's assets and liabilities. Apart from finance the new Act entire the new Act entire the new Act entire are empowered to co-perate with employers of labour for the brushing of the working classes to constructing chawls for their employers. by constructing chawls for their employes and leading them to the employers at a rent

#### Plan of operations.

The work of the Trust so far as it has gone or is planned can be divided into two parts the first concerned the numediate afleviation of the worst burdens of insanitation and the second consists of opening up new residential areas. The Trust began by attacking the most insanitary areas. Two broad roads running due east and west, were cut through the worst parts of the city sweeping away a mass of insanitary property and admitting the smaller westerly broezes to the most crowded batts of it. These thoroughfares are known as Sandhurst road and Princess street. They are as yet hardly completed but the greater parts of them are already settled under the new conditions with sites ou both sides of them disposed of on long leases and many new buildings built and overpiled Meanwhile large areas of good building land lying like for want of development works have been developed and brought on the market, sold at remunerative rates and largely built upon. An instance of this development is the Chaupati estate the land overhung by Malebar Hill, between it and the native city in the control of t new conditions with sites on both sides of them dwellings. Two of the most mantiary quar-ters in the midst of the city have been levelled to the ground and rebuilt in accordance with hypienic principles Sanitary chawle have

been built for about 20,000 persons Bo much for the first phase of the Trust's labours.

The second phase, arising gradually out of the first and advancing along with its later stages, consists of the development of a new suburban area in the north of the island bestages, consists of the development of a new suburban area in the north of the island beyond the present city and the construction of great arterial thoroughfares travering the island from north to south. The latter under takings were originally known as the sastern and western avenue schemes, but the cost of land is rising so rapidly throughout the city and the expense of new works is accordingly crowing so heavy that the western avenue has had practically to be abendoned and modified improvements of existing highways from south to north on the western alde of the city substituted for it. The eastern avenue will run from the back of Crawford Market, the northernmost limit of the modern commercial city directly north to Labagh, near the continue road to old Government House Parel, and have a width varying from 100 to 120 feet. It is divided into three sections. The first starting from Crawford Market and reaching to Bydhooie is already in the hands of the engineers for execution. the sound for which Parel road requires widen ting I awaiting the passage of the new legislation enabling the frust to talk additional funds while strong opposition has been made to it owing to the high cost of widening Parel road by constructing chases for their employes and leading them to the simployers at a rent cal ulated so as to yill to the Trust In the course of the 13 years of the leave the capital sum spent in the scheme sum 4 per course, the chases then becoming the property of the employers. The Trust are now co-oper than the several millowers in schemes under these sections. portion is under construction.

Beyond the northern end of the Eastern Avenue the north-east portion of the island extending some three miles, consisted until expending some three lines, consider universely recently of awampy rice lands merspersed with bits of jungle and small bills and a few building areas. The Trust have acquired the whole area. A broad thoroughfare has been laid through the centre of it with other roads connecting the outlying parts with the central road and with the railway stations. Some of the hills have been levelled and the material from them used to fill the low lying parts of the cetate Development some time are reached the stage of readiness for building in the half of the stage of readiness for building in the half of the scheme nearest the city and the Irust are now devoting their storiton to isolitating private enterprise in this direction some building has already been commenced. The suburbs will probably become largely residential for people whose daily pursuits take them to the southern city but its chief use will be for those whose avocations employ them in the large now port extension which the Port Trust are carrying out to the worth of the at the north of the present port and where the new cotton green and grain yards will be situat new cotton green and graun varies will be stream to The Port Trust have reclaimed 500 acres of land from the north of the harbour, at a cost of £1 883,833, and the whole of the export trade of the port will be concentrated in this new area and in that adjoining it at Managaon and Sowii

#### Statistics

The following are some statistical details of the progress of the Trust's operations By Ву including 50 lakks received from the 33 55 pre-ent the net annual income works Government of India in 1911 and 4 lakts from out to 68 45 per cent of 18 23 1499 se Bts 500 lakts out of which they had spent clawls (including value of land) amounting 29 lakts on improvement of 600 vernment and to Bs 34 50... 20 as which the Board pay annual Municipal lands temporarily vested in them, laterest and flinking Fund charges at 4 61 Bs, 582 lakts on their own acquired estates and 3 lakts on their own acquired estates and 3 lakts on their office building The Rs 5279 less than the net annual income following table taken from the Trust sofficial as worked out above The average populas according to the state of the development tiden of which has 14 306 degree to very the contract of the development tiden of which has 14 306 degree the very 29 lakes on improvement of Government and Municipal lands temporarily vested in them, Br. 562 lakes on their own acquired estates and 3 lakes on their ordice building. The following table taken from the Trust sofficial as worked out abov. The average per cent amounting to Rs 159 057 when the following table taken from the Trust sofficial as worked out abov. The average per cent amounting to Rs 159 057 when the following table taken from the Trust up to the under review end of the official year 1914 15

Developed Land, Permanently leased Chawl sites Yet to be permanently lease Remainder roads open so		sq yards in thousands 690 70 279				
Total		1 490				
Rent of permanently leased area	Rs 1	1 2 lakhs				
Area of undeveloped land in thousands of square yards	5	417				
Cost of acquisition	$\mathbf{R}\mathbf{s}$	517 lakhs				

The disposal of plots on the Trust's newly The disposal of poor on the Trust newly developed estates is now progressing at a favourable rate. Practice shows that for obvious reasons the disposal of plots proceeds most slowly when an estate first becomes available for leasing to the public. When the available for leasing to the public When the first piots have been taken up and house build but begins to assume defirst proportions the remaining sites pass off without difficulty. The total plots disposed of during the last official year (1914-15) was much below normal the outbreak of war having stopped recruial the cureas or war having stopped progress, last as a recovery was being made from the effects of the bank faitures in 1912 During August and September in which months a large number of plots are usually disposed of, only six were let, and of these three were subsequently reruned on the tenants failing through difficulties due to the war. Towards through difficulties due to the war. Towar the end of 1914 15 the market became brisker

The average total population in the Trust During the past year there has been an im shawls and semi permanent camps was 17 334 portant movement towards the establishment in 1914 15 The total rent of the 4 985 rooms of co-partnership housing societies on the Board s

percentage of outgoings to gross chard revenue percentage of outgoings to gross chart revenue is found to be approximately 38 35 per cent this proportion being higher than in the case of plysate charts are made to the same apend far less than the Board on the sanitation of their chards. On the basis of the maximum annual rent of Rs 2 31 419 and outgoings at 33 55 p.r.e-nt the not annual income works

With the one exception of the old Nagpada chawls where there are special conditions the death rate in the Trust's permanent chawls has always been considerably below the general drath rate in the vicinity. The smallest one-room tenement on the Trust Estate is large enough for a family of five

### A New Method

A further devilopment of method in dealing with insunitary areas is now in prospect. It has already been recognised that estimates on the old wholessle demolition lines would on the old waspessive committee more wound be prohibitively expensive for the large represented areas remaining to be dealt with swing to the constantly increasing cost of property and work, and could benefit only small areas surrounded by larger areas in which in-antary conditions are always going from bad to worse with the extension of building operations under the lax Municipal by laws already referred to it is recognised that what is wanted is some general scheme of the property of the contractions of the contractions of the contraction of the contra improvement that can be applied all over the city and some means of putting an immediate check to the spread of further insanitary evils through the weakness of the bylawa especially in relation to the lighting and ventilation of one roomed tenements. The Trust officers have devoted much time to studying officers have devoted much time to studying this question and the chairman some tame ago propounded a scheme by which all in Bombay night be closed gradually and house owners required with some assistance from public times to reconstruct the rouses so that all rooms in them used for dwellings night have sufficient light and air. The scheme attracted the attention of Government, who attention are presented two considerations or wideby the beginning of 1914 15 completion attracted the attention of Government, who certificates have accounted to the consider on the Trust Estate exclusive of Poice charks the new plan. This committee have subsend Trust charks. In 1914-15 certificates mitted a representative committee have subsend for 11 new buildings mitted a report and it is hoped that by the cond of 1916-16 solid progress towards the prevention of the development of siums will be recorded.

in Trust's class; at the maximum rates works Estate and the Board regardied the new departure out to Rs. 2.31,410 per annum but owing as one des rving every encouragement at their to vacancies in some chawis the maximum hands especially in connection with the disposal for 1914-15 was Rs. 2.23 156 or 99 4 per out of land in their Garden Suburb in the north of the total recoverable Rs. 2,24,408. The of Bombay island.

# The Indian Ports.

The administration of the affairs of the prespectively of all the chief Indian port -The administration of the artains of the larger ports (Calcula Bombay Madans Reracht Rangoon and Chittagory) is vested by law in bodies specially constituted for the purpose. They have wide powers, but their proceedings are subject in a greater degree than those of symplectic bedden to be active. municipal bodies to the control of Government Except in Calcutta, the elected members are At all the ports the European members con stitute the majority and the Board for Rangown consists wholly of European members

The income and expenditure of the five pulncipal ports managed by Trusts (Aden is excluded from the tables) is shown in the fol lowing table ---

	Income	Expendi ture	– – Capital Debt
	1 1	1	——- <u>}</u>
Calcutta	936 3.,3	£ 1 035 207	6 610 516
Bombay	648 879	790 0º6	∌ 351 620
Karachi	223 314	25( 505	1 ~43 861
Madras	83 165	63 080	724,871
Rangoon	302,5.1	279 995	1 742,308

The Director of Statistics (Department of Commerce and Industry) in 1914 issued the following returns showing the ratios borne by

Rombay Madrus Karucki	lucome per cent	Expenditure per cent.
Calcutta	41 3	46 2
Bombay	26 3	24 8
Madras	4 9	5 8
Karacli	14 1	11 5
Rangoon	12 7	11 8
Chittagong	7	6

The official return of the Director of Statistics shows that in the ten years ending 1912 13, the in one and expenditure of each port have increased as shown in the following table. The total income of all the ports has increased in the decade by 70 8 per cent, and the total expenditure by 83 1 per cent

	1ncrease	per cent.
	Income	Expenditure.
Calcutta Bombay Madras karachi Rangoon Chittagong	78 9 89 8 98 1 139 H 158 5	91 5 108 7 189 7 140 8

The war has affected the trade of all the ports in a manuer which makes it useless to the income and the expenditure of each port to continue comparisons up to date on the lines of the total income and the total expenditure, the foregoing figures

#### CALCUTTA.

The Commissioners for the Port of Calcuttat are as follows --Appointed by Government—The Hon ble Mr C J Stivenson Maori ovo 104 thair man the Hon ble Mr H. J Hilary Vice

Chairman Elected by the Bengal Character of Commerce— Mr A. C. Patterson (Beilder Gray & Co.) Mr S. Fuetace (Kilhurn & Co.) Mr A. A. Vlasto Mr S Fusiace (Minum a 11) of r & Shake (Ralli Brothers) Mr W I Crum (Graham & Co) the Hon ble Mr R & Montrath (Macki non Mackenzie & Cu) The Hon ble Mr F H.

Stewart CLE (Gladstone Wyllie & Lo) Riected by the Calcutta Trades Association Mr E C Emerson (Francis Harrison Hatha

WAY & CU)

Bleeded by the Bengal Vitimal (hamber of Commerce Babin Runda Lai Ruy Kleeded by the Municipal Corporation of Calcula The Honble Raja Rochet Caso Law or P

hommated by Government — Mr G C Odd frey (Agent Bengal Nagpur Railway), Mr R B Highet (Agent East Indian hallway) Colonel C A, E Browne R R (Agent, Eastern Bengal State Railway), Mr G Lard ManGregor 10 S (Gollectro of Custums) and Captain G S H.wett R 1 M (Deput) Director Royal Indian Metallo Royal Indian Marine)

The principal Officers of the Trust are -Secretary -- Mr S C Williams

Deputy Secretary -- Mr T H Elderton BA. Chaf Accountant - Mr N G Park OA thief Engineer - Mr J Roott M. 1887 C E

Consulting Engineer and London Agent -Mr J A. Aprus M INET U L

The income of the Trust in 1914-15 amounted to Be 1 44 50 309 against Bs 1 51,28 435, in 1913 14, which was a record viar the decrease reflecting the influence of the war During the year 212 Vossels with an aggregate groun townsqu of 1247 392 were accommodated at the jettles compared with 254 vessels with a tonnage of 1 62 842 in the preceding year in the same period 1 160 vessels were berthed at the docks 108 being Government transports as compared with 1 220 vessels in 1913-14 the steady growth of trade and shipping at the part the Port Commissioners' income has expanded as follows during the last decade -

Year	Income
	Re.
1904-05	88 86 728
1905-06	89 55 895
1906-07	1,00,08,736
1907-08	1 09,67 142

Year	Linconne
	Rs
1 <b>90</b> 8-09	1 20 16,630
1909-10	1 18 36 515
1910-11	1 28 26 171
1911-12	1 35 90 408
1912-18	1 42 45 31"
1918-14	1 a1 28,485
1J14-Ia	J 44 of Jn9

The figures of income do not however indi cate fully the expansion that ha taken place in the operations of the Trust because since the year 1902-03 up to the time of the Present war the Commissioners reduced their rates and charges at various times.

The expenditure during the last official year amounted to Rs. 1,00 28 118 This is Rs. 14 lakha less than in the preceding year

The deer are in traffic in the port arising out of the war affected the revenue of the Trust to an average extent of about Rs 2 lakes a much and in January 1915 the Commissioners resorted to emergent measures of taxation to meet the situation

Various considerable improvements for the expansion of the port have recently been carried out to provide for the growth of trade. An important project recently undertaken was one for the lighting of the lower reaches of the Hughli with a view to their nevigation by night. Considerable progress has been mad with a new scheme for the extension of the docks. A special committee was appointed in England special committee was appointed in ragain in 1913, to visit and impect British and continental ports with a view to advising the Commissioner in the light of the lutest ex erience there on various points connected with new works

But these undertakings only belong to the outskirts of the main problem. The remedial measures of the Port Trust have proved benedeial, but they are insufficient to meet the ever increasing requirements of trade The question of the congestion at the Calcutta jettles and the absence of adequate transport facili ties for the present volume of trade bas been engaging the attention of Governhas been engaging the attention or crovering ment for some considerable time past. There has been a very great expansion of the trade of the port and a large increase in the number and tonnage of vasels entering it and the lack of sufficient accommodation has seculted in serious delays to vessels and consegreat loss, chiefly arising from the madequacy of facilities for the discharge of cargo at the Setties.

The Government of Bengal in December 1918, appointed a Committee to investigate important questions represented by the problem of the future development of the port. The Committee consisted of the Hon 2r Whism Duke Chairman Sir Heary Burt the Hon. Mr A. M. Montesth, the Hon. Mr J. Sherneck the Hon. Eaja Hrishikesh Leka Mr A. G. Lyster, and Mr. H. F. Howard scrabers and Mr. R. N. Beid. L.D.S., Scoresary

The Committee was empowered to—

(1) examine the existing traffic and port
facilities in Calcutts and its immediate neighbouthood

(2) in vestigate the present and future require ments of the trade of Calcutta, and

(3) determine the extent to which the various transport agencies shall provide new works and other facilities in order that these requirements may be fully met for as long a period as it is reasonable to prepare a forecast

The Bengal Government in an explanatory announcement, agreed that the subject for consideration is one of wider range than an enquiry into the facilities afforded to the import trade at the jettles, and that it concerns rather the question whether proper facilities of all kinds are being provided to enable the port and rallway authorities to deal promptly and ado quartey with the rapidly-expending trade of Calcutta in accordance with a well-defined and rare ally throught-out pours. There are several projects for improving transport facilities and the rallway and other approaches to the port which have been prepared at various times and which are now under consideration such as the provision of railway bridge over the Hughli at Panihati, the expansion of the docks, the provision of new coaling berths on the Howrah sids of the Hughli the Grand Trunk Canal Project, the removal of the Hatkhola jute mart and additions to the lettles. These projects are of the first importance and involve enor mous expenditure and they should it is rightly held, be examined and co-ordinated by a committee whose duty it would be to make an exhaustive enquiry into the requirements of the trade of the port and the means by which these requirements could be met

The Committee's report was published in March, 1314 It approved of the new scheme already undertaken by the Port Commissioners for the extension of the Docks saving are of opinion that the general layout of the scheme is suitable and that it will ensure an ample margin for the expansion of trade which is likely to take place in any period that can reasonably be foreseen. The Committee said that the main criticism to which the con duct of the Port affairs is open is that the in ception of these schemes was delayed until the great increase of trade during the last two years has showed only too consunively how urgently they were required

At the same time the Committee recognised the cuinest services rendered to the Port by the late Sir Frederick Dumsyne, during his tenure of clico as Via Charman of the Port Commissioners stating that the schemes of extension recommended were initiated under this auspietes and that their inception is now possible is due to his foresight and to his

grasp of the situat on The Committee considered that the future ex pansion of the seaborne trade of Calcutta should take place in the neighbourhood of the docks Their principle conclusions, in addition to their approval of the dock extension scheme, may be summarised as follows 4 standing advisory Committee should be appointed in reference to the ratiway approaches and lay-out of the stding accommodation for the new dock system the Committee to consist of the traffic officers of the Port Trust and of the railways concerned.
It would be unwise to inour a large outlay in developing the present jettles, but stops should be taken to midgate the existing defects in regard to them without undue expenditure on schemes that wil not be permanently useful The whole question or the improvement of the niver Hughli should be thoroughly investigated and decided on at an early date. The present site of the Howrah bridge should be adopted for the proposed new bridge, which should be wide enough to allow of three streams of traffic in each direction, in addition to the trams.

and should carry greatly widened footways. The Improvement Trust should consider the whole question of road communication in connection with the prospective development scheme of the Port Commissioners The opening of a second rathway bridge over the Hughli will be required eight years hence. The Committee recommended various measures to enable the revenues of the Port Trust to meet the charges on the large capital works contemns of the contemns of the contemns of the contemns of the contemns of the contemns of the port Trust to meet the charges on the large capital works contemns of the contemns of

contemplated

The Capital debt of the Port at the end of

#### BOMBAY

Apposited by Government - Th Hen ble Sir Frederlok I spirit Kt (Chairmon) Mr Navroll Jehangir Gamadla Yr Mahomedbhoy Currimbhoy Ebrahim (Messrs Curtimbhoy Navroll Jehangir Gamadia ut magamenanay Currimbhoy Birahim (Mesars Currimbhoy Firahim de Coi Captam W Lumaden i voi Lie En Corrector of the Royal Indian Marimi Majoi H A J. Hipper & E. (Agint G. I. P. R. v. Mr. P. Eccles (Collector of Costoma Bombay) Mr. Purshotandas Thakurdha (Mesar Narandas Bajaram & Co.) Mr. R. Woolkombe (Agent B. B. & C. I. R. v. Mr. I. R. Cadell C. I. F. I. S. (Muncipal Commissioner Bombay) Britadier General W. C. Kulght Deo A. D. C. (Millary Officer Serving with Bombay Brigade)

knight den ade (Military Officer serving with Bombay Brigada)

Elected by the Chamber of (ompares—Mr Heroom IP & O & N Co) the Hon ble Mr T W Birkett (Messrs Killick Nixon & Co) Mr C E Xylis (Messrs Killick Nixon & Co) Mr C E Xylis (Messrs Raili Brothers)

Wr W McA Houstoum (British India Steam Navigation Co) Mr Nigel F Paton (Missrs W d.A Graham & Cc)

Elected by the Indian Merchants Chamber and Bissra—The Hon ble Mr Manmohandus Ramil (Messrs Manmohandus Ramil (Messrs Manmohandus Ramil (Messrs Manmohandus Ramil)

Elected by the Grain Merchants Association — Mr Naranji Haribhai (Messis Ramji Pur eliotam & Co)

The following are the principal officers of the Trust -

Secretary -Mr H E Hart Chief Accountant - Wr J Tyers

Business — Moers P G Mossunt Ole W 1987 OB (Chief Engineer) Mr A C W Fosbory M 1987 OE (Deputy Chief Engineer) I H Sayle, A. M. 1887 OE (Deputy Chief Engineer New Docks Works) C Anderson (Mechanical Superintendent)

Port Officer -Commander C 8 Hickman The revenue of the Trust in 1914 10 amounted The revenue of the Trust in 1914 15 amounted to Be 1,0,73 192. This is the highest on record in the history of the port, and in excess of the previous highest figure that for 1913 1b be nearly four lashs. The expenditure from revenue was Rs. 118 96 635 resulting in a deficit of Rs. 16 22 143. This deficit has been most by withingard from the Revenue Reserve Yund specially accumulated to meet the tem. porary deficite anticipated during the first few years following the opening of the new docks and the Port Trast Railway Os capital screens the expenditure during the year aggregated Ec 10774 643, of which

The Board of Irustees of the Port of Bs 96 13 294 was spint upon new large works—Bombay is constituted of 17 members as all under Wit Pock and Highes Dry Dock follows — almonated by Government—The Hun ble attou including the Port Trust Railway The total drbt of the Trust at mb. and of the year amounted to its 13 99 70 807

The total trade of Bombay port luring the lust official viar with Re 1491 crores a decrease that officialities with the provious year of Ra officiency (exclusive of Government transactions) or 28 per cent. The number of steam and square rigged vessels which entered the docks or were bothed at the harbour walls and paid dues excluding those which remained for unlossing and lossing in the selective transactions. harhour stream during recent years, including in the harhour stream during recent years, including last year is shown by the following statement—

'ear	Number	Tonnage.
1906-07	1476	2,690 406
1907-08	1477	2,678 840
1908-09	1474	2,633 303
1969-10	1611	2,747 779
1910-11	1589	⊸,804 11 <b>23</b>
1911-12	1519	2,767 913
1012-1-	1560	2,926 506
1913-14	1579	3,135 597
1914 15	1880	4 417 095

#### **Bombay Port Extension**

The Bombay Port Trust have partially completed important new development schemes, which will add greatly to the facilities of the port Foremost amount these works comes the Alexandra Dock the equipment of which will have no superior in the world.

The starting point of the modern port of Bombay was the year 1862 when the Eliphin stone Land and Press Company which had already done useful development work, entered alread mone nearly development wurs, entered into a contract with Government to provide a hundred acres for the terminus of the Great Indian Penisuals Ballway receiving in return the right to reclaim from the sea for its own advantage two handred and fifty acres fronting the properties it had already acquired. The Company brought its cetate into bearing with rare enterprise
Doubts were felt subsequently of the windows

of conferring upon a private corporation sade

an enormous monopoly as the control of the barboar front. These were resolved in 1889 by the decision to buy out the company and vest its properties in a public trust. The estate passed into the possession of the Government in 1889 the purchase price being approximately two millions sterling and after being managed by a department of Government in the interregnum, the property passed to the newly-constituted Port Trust in June 1878

Government purchased in 1879 on behalf of the Trust, the private fareshore owners rights, at a cost of 18 75 lakes and at the same time reconstituted the Trust on a basis on which it has worked exceedingly well until the present day. The late King Emperor Edward VII, during his vist to Bombay in 1875 laid the foundation stone of the first large dock which has since been known as Prince 8 Dock. This was opened in 1880 and themseloward the financial difficulties hitherto experienced by the Port Trust disappeared. The construction of the Victoria Dock followed and recent years have provided an unbroken succession of surplus receipts into the treasury of the Port. Out of these profits charges on trade have been reduced wherever they pressed and the financial position of the Trust has greatly been strengthened by the building up of a large revenue by the institution of sinking funds for the repayment of the whole of the systing debt and by liberal appropriations to depreciation accounts.

The trade of the port rapidly outgrew the accommodation provided at Prince and Victoria Docks. The dovelopments now in progress are the result and are estimated to provide for the requirements of the Port for sucher 20 years, or longer. The new schemes may be divided into four heads.

- (a) The construction of the Alexandra Webock and Hughes Dry Dock, of which His Majesty The King Emperor laid the foundation store during his widt to Bombay as Prince of Wales in 1805. His Excellency the Viceroy with Her Excellency Lady Hardings, performed the opening ceremony in March. 1914.
- (6) The reclamation for the development of Port facilities of 363 acres with a wharf frontage 2; miles in length—an addition of some 4; per cent to the area of the city—at Mazzgaon and Sewri, beyond the present Docks at the extreme north of the harbour
- (c) The building of a new railway leading from the main lines of the G I P and B B & C I outside the city to the Docks, in order to provide for more expeditious handling of heavy railborne traffic and
- (4) The construction of a complete bulk of installation at Sewri at the north of the docks, with a deep-water pler

The total estimated cost of the new dock and its equipment is Ra. 6:16:05:469 or say \$4,100,365, cost of the Port Trust Railway over 64 takin (5420:660) of the bulk oli installation, 22; lakins (5147:500), and of the prolamation and contingent works, Rs. 838 lakin, or, may \$2,536.660

The contract for the Alexandra Dock was given to Mesers Price, wills & Reeves in 1908. The dock is obtong in shape, with two bays at the north end. The total area of the wet hash in 49 52 acres, the length of quays, including the harbour wall, nearly three miles there are 17 betths 500 tt in length. These betths are equipped with hydraulic granes and transit shed socommodation varying from 3-storeyed sheds 400 ft long by 120 ft wide to single storeyed sheds 400 ft long by 100 ft wide Rallway sidings run between the quays and the sheds also behind the sheds. On the harbour wall there is a quay 3 000 ft long equipped with hydraulic cranes and transit sheds. The north end of this quay is intended for a trooping berth. Hydraulic power is used for working the cranes dock gates, machinery transit shed lifts captenas etc. A fasting orane to lift 160 tons forms part of the equipment of the dock. The dock entrance is through a lock on the south west, parallel to which runs the new dry dock a thousand feet long a hundred feet wide and with a all thirty four and a quarter feet heleow high water ordinary near tides

Outside the duck beyond the entrance lock, runs the new mole a continuation of the south west wall alongside which ocean steamers may embark and disembark their passengers may embark and disembark their passengers may embark and disembark their passengers therefore the stippensing with the tiresome interpodition of the tender. In the immediate vicinity of the landing pier a Customs house refreshment and waiting rooms, post and telegraph offices and every facility the travellet can require an under construction

The small Carnac basin immediately north of the new dock and formerly used by country craft has been filled in thus enabling a canal to be cut from the northern extremity of Alex andra Dock and extending to Victoris Dock The width of the canal will be 80 ft. Four berths will be provided to permit ahips to lie at the wharves on either bank. The waterway will enable ships to be taken into any part of the Bombay dock area through the Alex andra Dock cutrance. This will probably lead to the closing of the old dock entrapees with the result that ships will be saved much intracate handling and the Port Trust will be relieved of the necessity of expensive dreiging operations.

The railway sidings and series of transit sheds in the new dock were planned according to the most modern principles of dock management.

The Sewri reciamation will chiefly be utilised for the accommodation of the export trade of cotton grain and seeds which form the largest item in the tradic of the port. The old cotton green—or market—is situated at Colabe at the extreme southern end of the port and has long been greatly overcrowded, beeldes enounhering that end of the port The new cotton green and godowns on the reclamation will cover about 186 acres with 182½ acres available for future extension. The present greens and godowns at Colabe accounty 50 acres. Unloading stilings with accommodation for 700 wasgons are to be provided, in addition to ample running lines, as compared with addings to hold 154 wagons at Colabe at present addings to hold 154 wagons at Colabe at present

#### KARACHI.

The Members of the Board of Iristees of the Port of Karachi Bre as follow -Chairmon -- Mr H C Mules, GSI M. V O
Vice-Chairmon -- Mr F S Punnett
Apposited by Government -- Mr D B Travor
Major W E R Dickson R.E Mr T I
Steephen (The National Bank of India Lind)
Mr W U Mcholas (Anderson & t.)

Mr W 11 Nicholas (Anderson & C.)

Elsatas by the Chowber of Commerce—The

Hon ble Mr M. de P Webb 011. (Forbes

Porbes Campbell & Co Lidd) Mr J H Fyte

(Mackinnon Mackentie & Co) Mr James

Kenyon (Sarday Patrick & Co)

Riceted by the Municipality —The Hon ble Mr Harchandral Vishindse BA LLB, and Mr Wadhumsi Codbaram BA, LLB Officers of the Trust ar

Port Officer - Commander W W Farwell

B.I M Secretary —Mr R W Cooper Chief Engineer —Mr G R Ivon Superintendent Export and Import-Mr T 3 Downle

The revenue receipts and expenditure of Lara chi port for the year 1914 15 were as under -Bevenue receipts (exchaing expenditure from the Port Fund Account) Rs 3:49714 Expenditure Rs 3:7579 Leftet Rs 4.0:855 The revenue receipts in 1918-14 before the effects of the wat were fully experienced were fully experienced with the control of Ra 48.46 100—the highest ever realized in the history of the port. The capital debt of the Port at the close of the last financial year amounted to Bs 2 82 40 424

New Port Trust Offices have just been built and are to be opened by His Excellency the Hovernor on January 5 1916 A new Customs

of 2 056 379 tons in 191, 14. This is exclusive excreme limit

The Members of the Board of Trustees of of verseis put back and fishing boats.
The Members of the Board of Trustees of number of steamers which entered the port of Karachl are as follow—
was 852 against 930 in the previous year. was 852 against 980 in the previous year tonnage of steamers entering the port 1 823,937 compared with 1,941 407 in previous year

imports landed during the year amounted to 697 J58 tons and shipments 1 067 004 tons lotal shipments were 1,015 868 tons in 1914 15 agamest 1 483 069 tons in 1913-14

agamst 1483 069 tons in 1913-14

The close of the year 1912 13 marked the practical completate of works the result of whi h will be a new departure in the history of the 1rust The year 1913-14 found the new Man field import yard in full working order and the old ward handed over to the North Western Rallway Development of port Isolitties is in progress in several other directions.

Then and estimates were last was substituted. facilities is in progress in evertal outer unremanus. Plan and estimates were last year submitted to and approved by Government for a West Whatlage Scheme to provide 18 new berths the root bring estimated at Ra 5 43 77 900 though the Trust anticipate that these estimates. will have to be thoroughly revised. Some Rs 17 lakks were spent on the scheme up to the end of last year and for the present it is proposed to carry out a portion of the scheme only ex. for 6 berths, at an estimated cost of over Rs. 149,0000 Government also sanc

over Rs. 143,10,000 thoyenment also sance the toned hast vear plans and estimates for a Lower Harbour Improvement Scheme costing Rs. 25,25,000 which is a corollary to the other improvements. Under this scheme, the other improvements. Under this scheme, the other improvements. Under this scheme, the other improvements. Under this scheme, the other improvements to the tother improvements and is described to 32 ft 6 in at L. W. O. S. T. This will be also a superior and take of the tide. The scheme is the tother than the lower than the tother than the tone that the town that of the tide. The The number of vessels entring the port in the last official year was 30 6 with a tonnage of the big to 1925 154 tons, against 3,103 with a tonnage of the big to the 32 feet are being worked up to 11925 154 tons, against 3,103 with a tonnage of the big to the 32 feet are being worked up to 11925 154 tons, against 3,103 with a tonnage of the big to the 32 feet are being worked up to 11925 154 tons, against 3,103 with a tonnage of the big to the state of the tide. The sanctioned drught to the tide of the tid

#### MADRAS

proentage for 1013 14 was 62 97 and the average for the pata years 69 80 Excluding from working expenses the interest on loons which in the year under review was Rs 387 403 actual working expenses come to 44 44 per cent of the regular harbour (armings against 41 97 per cent in 1913-14 V seels of all sorts to the number of 4% and a tonnage of 1 2.5 464 paid port dues the privious years figures being 624 and 1 777 4.0 respectively and about 654 333 tons of exports and imports were dealt with at the port

bhojadaes thru, and a Bantanujam Chutti Garu
Raprasculung Chomber of Commerce—Mr
Represculung Chomber of Commerce—Mr
G Braser Mr C B Suppoor Mr E Greenall
and the Hon ble Mr Hugh 8 Fraser
The recedpts of the Trust from all sources
of revenue during the timencial yet 1914-10
were Rs 1257230 against R 1872-31 to ment to enable the
office 200 acres within the enclosed harbour
to be deepened from 28 to 32 feet below low
water with quay extensions. The Govern
thon in 1913-14 This represents a decrease
of 17 7 per cent or if the Port Fund contribut
tions be excluded or about 14 9 per cent in the

"Tust a drift at the end of the offical year
water and the purpose
The work has been
vigorously proceeded with. The Port
times a drift at the end of the offical year
water and the purpose
The work has been
vigorously proceeded
with The Port
thus a drift at the end of the offical year
water and the the dependence of the purpose
the work is 10 s 306 The harbour was attacked
by the German croiter Enden on the hight of

# The following gentlemen are the Trustees of

Spring Kole (Chairman) Mr C W E Cotton I u.s. (Collector of Customs) Con mander W B Huddle ton RLM the lort mander W mander W Discourse of the Manager of

the Port of Madras —
Officials — The Houble Sir Francis

M. R. Ry Diwan Bahadur (ovindaes Chatur bhoojadaes Garu, M. R. Ry Rao Sahib (

year much revenue not counting contributions made the 22nd September. She fired about 50 high by revenue to capital or ro payment of debt (xplos) a shells at the old tanks, setting two was Rs 9.46.204 or the equivalent of 75 25 per of them on fire and doing considerable damage cent of the gross receipts. The corresponding to the Port Trust buildings in the fire sone,

besides hitting the BLSS Chupra Fortu Oil Company were completely destroyed and ustely the loss of life was small, three men the harbour buildings damaged by shell fire damaged the loss has been stated by the were repaired at a cost of Rs 652D Too Chalman of the Company at a meeting of partially filled tanks belonging to the Burmah his sharcholders to have amounted to 27 812

#### RANGOON

port of Rangoon is comprised of the following

Appointed by Government—bir George Commingham Buchanan KCIB & Inst CE (Chairman), Mr James Algernon Stevens (Chici Commander Services (Chief Collector of Customs, Burms) Mr William Henry Larleton (Commissioner of Police, Rangoon) Commander Sermour Douglas Vale B.1 & (Principal Port Officer Burns) Mr. William Henry Lawson Cabell, BA 103 Mr. William Henry Lawion Cabell BA 16.5 (President, Rangoon Municipal Committee) the Hon Mr Arthur William Binning Mr Philip Henry Browne and Mr Henry Batten Huddleston

Elected by the Rangoon Trades Association -Mr Maurice Oppenheim

Officers of the Trust are -H Leonard officiating)

Rendent Lagineer - Mr J Ll Holmes

Executive Enquieer (River (conservancy) - Mr E C Niven

Deputy Conservator - Mr H Q Q Ashton (on leave Mr R N (Hilbert officiating) Traffic Manager -- Mr E H hieling (on leave Mr J H Primrose Wells officiating)

Chief Accountant -- Mr. D. H. James

41 84,773 The capital debt of the port fund at the

end of the year was Rs 2.61 84.622

# The personnel of the Commissioners for the with Re 5 573 lakes in the preceding year

The total imports (landed or sent inland in river craft) from sea going vessels amounted to 1,048 848 tong, Goods landed from vessels arriving from Luropean ports and elsewhere out she have deaned to 313 per cent and the in ports from Assatte ports declined by 10 3 per cent The traffic at the jettles for july and vessels totalled 1165 840 tons. The total number of steamers entering the port was 1 231 (excluding Govern ment vessels) with a total net tonings of 2,416 110 being a decrease of 4 stramers and

522 111 tons over the previous year

There took place on the 17th February 1914 the inauguration of the recently completed river tuning works rendered necessary by the erceion of the right back of the Rangoon Bleeted by the Burma Chumbes of Commerce — fiver training works rendered necessary by Messra John Henry Polaton (Fire Charmans) the erosion of the right bank of the Rangoot Baniel Robertson Walter Buchanan and John Proceedings to the country at over the town to such extent as to three on the permanent diversion of the main stream from the Rangoon foreshore and the consequent formation of a sandbank in front of the whole of the port frontage. The works comprised a training wall 10 000 ft long and the dredging of a channel through the shoal in front of the wall. It is culmilated that 99} per cent of the river is brought under control. One and a half million tons of granite were used in the work The well was practically completed one year and nine months before the estimated one year and name months book as successfully been accomplished, the main channel of the river has been diverted into its new course and the erosion of the right bank has ceased The revised estimate for the complete work The receipts and expenditure on tevented is Rs. 150 lakis. The cost is borne by a free second of the port of Rangoon in 1913 14 were as follow—

Receipts 45 88 279

Expenditure 41 84,773

The revised estimate for the complete work is Rs. 150 lakis. The cost is borne by a free grant of Rs. 50 lakis. The Government of India and by the raising of port debenture loans. The work being non revenue producing imposes a burden of some Rs 54 lakis. on the trade of the port.

Sir George Buchanan in December 1915 proend of the veer was Rs 2,01 34,622 corded to Basra to advise the Government of The total value of the trade of the port during India as to improvements at the mouth of the the year was Rs 4 789 45 Jahrs as compared Shatted Arab and elsewhere in that region

# CHITTAGONG

Chittagong, in Eastern Bengal, on the right bank of the Karnaphull river 12 inites from its mouth was already an important place of trade in the auteenth century when the Portuguese merchants gave it the name of Porto Grando The construction of the Assam Bengal Rallwav has made it the natural outlet for the trade of Assum and part of Eastern Bengal. The chief business is the export of jute which is baled realines is the export of jute which is baled at Manayangan and either shipped thence by steamer to Chandpur and ratied to Chittagong or dispatched direct in brigs to that ported Pricosposed, salt and knowene oil are imported, and tice, ten and bides are the principal exports. The total value of the exports in 1913-14 was £2,22,441 and the total value of the imports in the same year was £941 359

It has been recommended that this port may be made over to the Assam-Bengul Ballway and that funds required for its improvement should be provided by the Government of India out of their rallway budgets. This proposal has th support of the Bengal Govern posal has in support on the negative terms ment and a report on the matter has been submitted to the Scoretary of State The Acking Agent of the Assam Engal Railway points out in this report that, however valuable the Port of Chittagong might be to the Assam Bengal Railway it should only be after the most careful consideration that the sum of over a core of rupers already spent upon this port should be added to the Aman Bengal Ballway capital, since to do so would mean the further putting back of the prespect of this railway's paying dividends. He urges, is that the capital of the Port, together with therefore that the Government or India should the capital cost of the railway terminal racilities take upon itself the whole of the responsibility should be included in a separate account and for the expenditure required which, he thing is not in that of the Assam Beallway and might rightly be done in view of the increasing it has this should be financed in the same way where to Covernment to be desired forces. value to Government to be derived from im as are branch line companies proving the port. The procedure he suggests

# VIZAGAPATAM HARBOUR PROJECT

Viragepatam to supply an outlot for a large area of fertile country hitherto undeveloped and without suitable socces to the outside world, has been lately brought to the fore through a report to the Bengal Nagpur Rallway Company by their consulting engineers Sir John Wolfe Barry on personal inspection upoolds the pract-cability of creating at ne very extravagant cost an inland harbour to which access would be maintained by two breakwaters projecting into the sea and by dredging a channel to the depth (in the first instance) of 24 feet deep-water quay would be previded 1 500 feet in length with a possibility of supplying further accommodation in the future It is understood that the question is meeting with sympathetic ensideration on the part of the Indian Government though some doubt seems to exist as to the best measures for the furtherance of the object in view. That the creation of such a port would have a beneficial influence on the India scens unquestioned. It is pointed out value of the exports from this port in 191 that Visagapstam 1910 as it does in front was \$295.283 and of the imports \$13.205 of the only practicable gap in the barrier of the

The question of the creation of a harbour at | Eastern Ghata is formed by nature to be the outlet of the Central Provinces from which a considerable amount of trade has taken this route in the past even with the imperfect communications hitherto available A neces sary complement of the scheme would be the construction of the proposed railway by Parvati puram to Raipur which, with the existing coast line of the Bengal Nagpur Railway would coast line of the benker respect halfway wongs make a large and rich area tributary to the proposed port, and obviate the long and ex pensive circuit by Calcutta Alink would also be supplied in the most direct route to Bangson from Europe by way of Bombay while from an imperial point of view the possible provision of a fortified port on the long and almost un protected stretch of coast between Colombo and Calcutta is held to be a consideration of great importance. The lofty projecting head land of the Dolphin s Yose would it is pointed out offer facilities for this purpose and it also plays an important part in throwing the strong southerly current out to sea and checking the developm nt of a large area in East Central formation of a ber at Vizagapatam. The total value of the exports from this port in 1919-14

# BOY SCOUTS

The Boy Scouts movement, initiated in England by Lt Gen Str Robert Baden Powell (the Chief Scout) has spread widely rowell (the Oher Scott) has spread widely in India, and the Boy Scotte Association has seeived the patronage of the Vicercy and the heads of the local governments. The aim of the Association is to develop good clitzenship among boys by forming their character-training them in habits of observation obs dience and self reliance—inculcating loyalty and thoughtfuiness for others—and teaching them services useful to the public and handi crafts neeful to themselves

The following division of duties of the Indian Headquarters is officially published for information — The Assistant Ohief Commissioner deals with all matters of Organisation and Discipline including the issue of Warrants to new local Associations and Officers, also the registration of new troops, which should be applied for on Form C obtainable from the General Secretary Recommendations for awards of Life Saving Medals and Certificates should be made to him and also all applications for exemption from the swimming test for lat for exemption from the awimuling test for Lat-class (Regulation 21) and all correspondence on the subject of Challenge Trophics. Cor-respondence on the above subjects abould be addressed to him at Fort William, Calcutts, by Local Sconstaries, checky through the Dis-trict and Provincial Commissioner subsets such radic. The General Serviciny (Captain T. H. Baker Radway Road, Bangalore) deals with

routine matters official publications sale of badges, and also all matters connected with the official publication The Roy Scouls Gazette of Indua Local Secretaries can communicate with him direct on these matters and it is not necessary to rofer to the Commissioners on such subtects

The Boy Scouts Gazette of India published monthly is the official organ of the Movement in India and in it are notafied all official notices and orders issued by the Indian Headquarters It is obtainable from the General Secretary Subscription Rs. 2 8-0 per annum.

HEADQUARTERS STAFF IN INDIA.

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# Famine.

partitions of economic conditions which leave the bulk of the people dependent on the soil for their means of invelihood. It is intensified, for their means of hvelihood. It is intensified, because the produce of the soil over the greater part of India is dependent on a short rainy season, and the rains are erraite and subject to violent fluctuations. It talks with exceptional severity on India because the soil is divided into a multitude of petry holdings tilled by people without any capital, lwing for the most part from hand to mouth, and amongst whom credit ceases to exist as soon anonges with reduce cases is clear as so can as the rains fail In other agricultural coun tries there are good sessons and bad but there is none other with the possible excep-tion of China, where in a familie year millions of acree may not yield so much as a blade of grass except under artificial irrigation. The conclusion to be drawn from these conditions is that for many years to come india must be succeptible to familie. The shock of familie may be mitigated by the spread of railways, by the development of irrigation the growth of manufacturing industry and the improvement of rural credit. There is evidence that all these forces are tending greatly to reduce the social and economic discurbance caused by a failure of the rains. But they cannot entirely semove it of acres may not yield so much as a blade of

#### Famine under Native Rule

At one time there was a general tendency At one time there was a general realectory to attribute famine in India entirely to the effect of British rule. In the golden age of India, we were told—whenever it may have been—famine was unknown But India had been drained of its resources of food by the railways, the people had been impoverished by the land revenue demand and the country as a whole had been rendered less capable of meeting a failure of rains by the Drain caused by the Home Charges (c) These failades have disappeared under the incorrable logic of fasts. A better knowledge of indian history has shown that famines were request under Native rule and frightful when they came in 1830 says Sir William Runter in the History of British India, a calamity fell upon Gujarst which enables us realise the terrible meaning of the word famine in India under Native rule. Whole cities and districts were left bare of inhabit ants." In 1831 a Dutch merchant reported that only eleven of the 260 families at Swally survived. He found the road thence to Surat. as a whole had been rendered less capable of survived. He found the road thence to Surat survived. He found the read thence to surest, which bodies decaying on the highway where they died, there being none to bury them. In Surat that great and crowded city he could hardly see any living persons but "the corpses at the corner of the streets his twenty together nobody burying them. Thirty "the corpose at the corner of the streets lie be given on the relief works to the able-hoded, themselved by burying them. Thirty at a wage sufficient for support, on the cound thousand had perished to the town alone. The first state of performing a suitable task and (2) Resilience followed famine. Further his that gratultous relief should be given in their borden evidence was adduced by Sir Theodore values on the Economic values. The Drain theory the food supply should be left to private agency, has been exploded. It has come to be seen that whilst nailways have checked the old that the land-owning fasticated practice of storing grain in the vit-classes should be satisfied by kenn, and by garea, they have made the reserves, where they general suspensions of revenue in proportion exist, available for the whole of India. In to the crop failure. In sending a provisional

Pamine in India is the mevitable accom | India there is now no such a thing as a food lamine the country always produces enough food for the whole of the population famine when it comes is a money famine, and the task of the State is confined to providing the means for those affected by drought to earn enough to buy food The machinery whereby this is done will be examined after we have seen the experiences through which it was evolved

#### History of recent famines.

The Orissa famine of 1865-97 may be taken as the starting point because that induced the first great and organised effort to combat discress through "state agency It affected 180 000 square miles and 47 500 000 people The Bengal Government was a little slow in The Bengal Government was a little slow in appreciating the need for action but later food was poured into the district in proligious quantities. Thirty five milhon units were relieved (a unit is one person supported for one day) at a cost of Ra. 95 lakha. The mortality was very heavy and it is estimated that a million people or one-third of the nopulation, died in Orlesa alone. This was followed by the Madrae famine of 1866 and the famine in Western India of 1868 70. The latter famine untroduced India to the great migration from Marwar which was such a distinguishing feature of the famine of 1869-1900. It is estimated that out of a total population of a million mated that out of a total population of a million. mated that out of a total population of a million mated that out of a total population of a million and a haif in Maywar one million emigrated. There was famine in Behar in 1873-74 then came the great Scott indian Famine of 1876-78. This satisfied Madras Mysore Hyderabad and Bomhay for two years, and in the second year extended to parks of the Central and United Provinces and to a small tract in the Puriph. The total area affected was 257 000 course mile seef the proprietor, \$5,000,000. Punjab The total area affected was 257 000 square miles and the population 58 500 000 Warned by the excessive expenditure in Behar and actuated by the desire to secure conomy, the Government rollef programme was not entirely successful The excess mortality in this familie is said to have been 5,250 000 in British territory almos. Throughout British territory almos. Throughout British territory almos. Throughout British 100 000 000 units were relieved at a cost of 328 at 200 at 200 cm. of Rs 84 crores Chantable contributions from Great Britain and the Colonies aggregated Rs. 84 lakhs.

#### The Famine Codes.

The experiences of this famine showed the The experiences of this famine showed the necessity of placing relief on an organised basis. The first great Famine Commission which sat under the presidency of Str Etchard Strackey elaborated the Famine Codes, which amended to meet later experience, form the basis of the famine relief system to-day. They recommended (1) that employment should be given on the relief works to the able-bodied, at a ware sufficient for support on the conditamine Code to the provincial governments, the Government of India laid down as the cardinal feature of their policy that the famine induced a famine mortality of approximately cardinal feature of their policy that the famine induced a famine mortality of approximately cardinal feature of their policy was a the lowest amount sufficient to make a million. The experiences of this famine was collated by the Commission presided over takin the ditty of Government is to save life, it is not soon to maintain the labouring population as a whole the relief given we access mere described by the commission presided over and at its normal level of comfort. Provincial said down certain modified lines. The cardinal provincial is a solution of their policy was considered to the rains, indicated a famine mortality of approximately indicated a famine mortality of approximately indicated a famine mortality of approximately a million. The experiences of this famine mortality of approximately a million. The experiences of this famine mortality of approximately a million. The experiences of this famine mortality of approximately a million. The experiences of the rains, indicated a famine mortality of approximately a million. The experiences of the rains, indicated a famine mortality of approximately indicated a famine mortality of approximately a million. take duty of Government's its eave life, it is not soon reported that taking the famine period bound to maintain the labouring population at its normal level of comfort. Provincial said down certain modified lines The cardinal codes were drawn up and were tested by the famine of 1806 97 in that 807 000 square labouring that it is provided in the famine were affected with a population of 69,500 000. The numbers relieved exceed the relief given was excessive and a too of their policy was moral strategy and the start they would belp themselves, whilst own of the condition were allowed to deteriorate the cost of famine relief was its. 7; errores revenue in the forefront of their programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the condition of the programme the necessary of the programme the necessary of the programme the necessary of the programme the necessary of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the programment of the pro Lyall, which reported that the success attained in saving life and the relief of distress was greater than had ever been recorded in families greater than had ever been recorded in famines comparable with it in severity and that the recommended comparable with the average and that the recommended for eaving cattle. Governments had been given time to digest the proposals of this Commission or the people to recover from the shock, the great famine of 1898-1900 supervened.

The effectiveness

#### The Famine of 1899 1900

This famine affected 475 000 square miles with a population of 59 500,000 in the Central Provinces Berar Bombav Ajmer and the Hissar district of the Punjab famine was scute in the state of the range bands was saided in the said the said of the said In several localities there was practically no rain. There was in consequence a great fodder famine with a terrible mortality amongst the cattle. The water supply was deficient and brought a crop of difficulties in its train Them districts the Gujarat where famine had Them districts like Gujarat where famine had been unknown for so many years that the locs lity was thought to be famine immune were affected the people here being softened by prosperity clung to their villages in the hope of saving their cattle and came within the soope of the relief works when it was too late to save life. A very large area in the Native States was affected and the Marwaris swept from their impoverished and right through Central India like a borde of locusts leaving decolation in their train For these reasons realist had to be given on an unprecedented scale, At the end of July 4500 000 persons were supported by the State Rs. 10 crores were spent on relief and the total cost was were supported by the State were supported by the State were supported by the State were supported by the State of the Crores. The famine was also marked by a wideepread acceptance by fixing human fire. After state of the duty hitherto shouldered is far less severe now owing to the increased by the Government of India alone—the supreme resourcefulness of the people, than it was so can be supported by the Government of Rs. 3; crores the Patient States did a great deal to bring their states with a support over large areas in the United Province Native States did a great deal to bring their field over large areas in the United Province India and the States did a great deal to bring their field over large areas in the United Province India and the States did a great deal to bring their field over large areas in the United Province India and the States did a great deal to bring their field over large areas in the United Province India and the India and the India and the India and the India and the India and the India and Indi by the Government of India alone—the supreme resourcefulness of the people, than it was so responsibility of asving human life. Aided late as 1889 Still further evidence in the by loans to the extent of Rs 34 cores the Natural Control of the same direction was turnished when the raise administration into line with that in British in 1918 14 This famine affected 17,000 square India. Although actual deaths from starvalues with a population of 54 millions, whilst thou were heightfleauth, the extensive outbreaks distrass was grave in 30,000 square miles with of cholers, and the devastating spidemic of a population of 14 millions.

and secured by liberal preparations, constant vigilance, and a full calistment of non-official help. The wage scale was revised the mi-nimum wage was abolished in the case of ablebodied workers payments by results were recommended and proposals were made

#### Success of the new policy

The effectiveness of this machinery was partly demonstrated during the three lean years which fillowed the great amine in the Bombay Presidency But it received its most conspicuous demonstration when the rains falled in the United Provinces in 1907-98 Mural strategy was practised here on an un procedented scale togal loans being granted with the greatest liberality. The effect of these measures was suscinctly indicated by the Lieutganal-Governor of the United Provinces, Sir John Hewett in a speech in summarising his administration prior to his departure in Singland in March 1912 He showed that in the autumn harvest of 1907 there was a shortage of 4 million tone of food grains and in the spring or a minim was of rood grains and in the spring a barvest a shortage of 8 million tone giving a total of seven million tone or the food sup-plies for the Province for nine months and an economic loss of 438 million pounds. The Government advanced £14 million to culti-vators for temporary purposes and large sums for wells and permanent irrigation The whole of this sum was repaid except fifty four thousand pounds remitted owing to a second bad season and twenty five thousand pounds page season and twenty are insusant pointies then outstanding By common consent a great famine had never buch met with less loss and suffering to the people and two years later hardly a trace of it romained. In 1911 the rainfall failed over a considerable area in Gujarat in the Bombsy Presidency and again in 1912 in the Ahmednagar District of the Bombsy Deccan and both these partial failures demonstrated that the sbock of famine Three points soon emerged from the general revenues Hs. 1; crores annually, or year—the people showed greater resisting one million stering. The first charge on this proven owing to their improved conomic on grant is manine relief, the accord protection grant is manine relief, the accord protection grant is manine relief, the accord protection grant is manine relief, the accord according to the application of the relief programme brought the numbers of the n on public works within managrable propri tions, and induced the speedy return of the people to their normal avocations when the advent of bountful raips in 1914 consided agri cultural operations to be generally resumed

The Government of India is now in possession of complete machinery to combat the effects of drought. In ordinary times Govern ment is kept informed of the meteorological ment is kept informed of the meteorological conditions and the state of the crops pro-grammes of suitable relief works are kept up to date the country is mapped into relief circles, reserves of tools and plant are stocked. If the rains fail, policy is at once declared, non-officials are enlisted revenue suspended and loans for agricultural purposes made. Test works are then opened, and if labour in considerable quantities is attracted, they are converted into relief works on Code principles. Poor houses are opened and gratuitous reilor given to the infirm. On the advent of the rains the people are moved from the large works to small works near their villages, liberal advances are made to agriculturate for the purchase of plough, estile and seed. When the principal autumn crop is ripe, the few re-maining works are gradually closed and gratui maining works are gradually closed and gratul' tows reits ceases. All this time the medical staff is kept in readiness to deal with cholers which so often accompanies famine and malaria, which generally supervenes when the rains break Recent experiences go to show that never again will the Government of India be compelled to distribute reited on the tremendous scale demanded in 1809-1900 The high prices of produce have given the culti-vators considerable resources, the extension of irrigation has protected a larger area and or irrigation has protected a larger area and labour has become more mobile utilizing to the full the increasing industrialism of the country For instance in 1911 the rains in Gujarat failed completely yet there was fittle demand for relief works, and the neces-ative of the continuators were rather for fodder for their cattle than for money or food for themselves. Various sohemes are now under consideration for the establishment of fodder reserves in the villages

#### Fumine Protection.

Side by side with the perfection of the machinery for the relief of famine has gone the development of famine protection. The Famine Commission of 1880 stated that the best and often the only means of securing protec-tion from the extreme effects of famine and drought, are railways and irrigation

obain of protective railways is now practically complete Great progress is being made with protective irrigation Acting on the advice of the Irrigation Commusion (pp) an elaborate of the irrustion commission (p), an emousion programme of protective irrustion works is being constructed particularly in the Bombay Decean—the most famine succeptible district in India—and in the Central Provinces. these are completed, the shock of drought will be immensely reduced.

#### The Indian Famine Trust.

Outside the Government programme there is always scope for private philanthropy especially in the provision of clothes, help for the superior class poor who cannot accept Government aid, and in assisting in the rehabl litation of the cultivators when the rains break At every great familie large sums have been subscribed particularly in the United Kingdom, for this purpose and in 1899 1900 the people for this purpose and in 1899 1900 the people With for this purpose and in 1893 1900 the people of the United Statrs gave generous help. With the idea of providing a permanent famine fund, the Maharala of Jaipur gave in 1900 a sum of Rs 18 lakin, in tovernment securities, to be held in trust for the relief of the needy in tume of familue. This Trust has now avoiling to Ea. 28 lakin, chiefly from gifts by the found er's family. It is vested in trustees drawn from all parts of India, and is freely used in a remergency. Substantial grants were other. an emergency Substantial grants were given for the Bombay relief fund in 1911 and for the relief of the distress in Ahmednagar (Bombay Deccan) in 1912. The report of the Trust for 1914 states that towards the end of December 1913 the Government of the United Provinces applied for a preliminary grant in-aid of Ra 50 000 with the object of allerating the distress caused by the unfavourable nature of the mon soon The application was considered and sanctioned at the meeting held on the 12th January in March the Local Government applied for an additional grant of Re 50 000 which they proposed to utilise in supplying extra comforts to emaciated persons especially children and for the issue of clothing to destitute persons in poor houses and on relief works and at the meeting held on the 20th April this wa sanctioned To meet the second grant the Board found it necessary to sell Government paper for Rs 41 400 out of the temporary investment

The statement showing details of the assets of the Trust as at 81st December 1914 stated that the Endowment Fund invested in Govern mont securities vested in the Treasurer of Charitable Endowments at in the previous year was Rs 2810 000 Government Securities drought, are railways and irrigation. These leaves the 28 10 000 covernment securities are of two classes, productive and protective representing assets temporarily invested stood Froductive works being estimated to yield in 1913 at Rs. 7 02 000. The sales during the profits which will pay interest and sinking year amounted to Rs. 41 400 atoms a story as balance band charges are met from loans protective at the close of the year of Rs. 6 60,600. This works, which do not pay, directly from revenue, with ceah in current account in the Bank of its order to guarantee that there should be Bangal stood at Rs. 11,744 8-8 leaving a continuous progress with protective works, total available for expenditure of Rs. 7 72,844 8-8 the Figure Insurance Great was instituted and the total value of the Treat amounted in 878. It was decided to set apart from the representing assets temporarily invested stood in 1913 at Rs 7 02 000 The sales during the year amounted to Rs 41 400 leaving a balance

# Co-operation in India.

Before the end of the last century the Co operative movement had proved so successful in its attempt at generating rural life in countries with such diverse conditions as Germany Italy Switzerland and Ireland that enthusiasts like Mr Wolff soc al workers like the late General Booth and Indian adm nistrators like Sir Anthony (now Lord) Macdonell and Mr Duper nex were anxious to introduce the movement to mprove the economic and moral condit on of the Indian ryot. More than sixty per cent of the Indian ryor. More than sixty per cent of the vast population of Ind a subsists on agriculture and the majority of these millions generally I ve under present conditions, from generally I ve under present conditions, from hand to mouth The ryots occupation is healthy and productive and he is proverbially nonest and starghtorward in his dealings except when years of famine and hardship make him at times early and recake trant. Owing to his poverty combined with delectory in education and consequent lack of foresight however he has to incur heavy dubts to meet occasional expenses for current seasonal pur poses the improvement of his land or for ceremonial purposes and he has therefore to seek the assistance of the local money lender known as the Sowkar or the Malajan The rates of interest on such advances vary from province to province and even in different parts of a province. The average rate ruling parts of a province. The average rate ruling throughout Bombay Pres dency a lower than in most other provinces and there are again to a continuous in the rate in the Presidency their it is 6 to 12 per cent in Gujerat and 12 to 24 per cent in parts of Deccan while it rees to the enormous figure of 50 per cent in several tracts. In addition to charging these excessive rates the Sowkar extorts money under various pretexts and takes from the nee v borrower bonds on which heavy stamp duties are payable One of the chief causes of the rvots poverty is that owing to he absence of security and his short-sightedness due to want of education ie does not as a rule collect and lay by his savings but fritters away his small earnlogs in extravagant and unproductive expenditure on the purchase of triukets and ornaments and on marriage and other ceremonies In some cases marriage and other coremonies to some cases, he hoards coins under the ground with the likelihood that on his death the money is lost to he samp for sood. This absence of their and the histof dependence in case of difficulty on the Government o on the Sowker are the bane of his life There is besides a total absence bane of his life. There is besides a total absence of ideals or desire for progress. A to-operative Society would change all this inasmuch as it would provide him with a suitable institution in which to lay by his savings and would teach him the valuable lesson of self help through the sense of responsibility he would feel in being its member. Thus the chrunk poverty and indebtedness of the Indian sprenituriest afford a very good field for the introduction of conversities member. of co-operative methods especially as his work is of a productive character likely to enable him to earn a better living under circumstances more favourable than they are at present

First Scheme Proposed —The question of improving ru al credit by the establishment of agricultural Banks was first taken up in the early meetics when Sir W Wedderburn, with

the assistance of the late Mr Ranade prepared a scheme of Agricultural Banks which was approved of by Lord Ripon's Government but was not sanctioned by the Secretary of State The matter was not again taken up until about fifteen years later when Lord Wenlock a Gov rmment in Madras deputed one of its ablest officers Mr F A (now fir Frederick) Nicholson to report on the advisability of starting Agri-cultural and other Land Banks in the Presidency for the relief of the agriculturists. Bit Frederick had prepared blusself by a thorough study of Ag icultural Banks and Co-operative Societies and had visited many Buropean countries to are for himself the various developments of the co-operative movement He was also con vinsant with the social conditions of the Presidency where there had been in existence an institution called the Nidhi which corresponded in some respects to the Provident Funds and Friendly Societies in European countries. Though these institutions provided cheap local capital to the agriculturists the spirit of cooperation was lacking in them. This want was supplied in early times by the Village Panchayate which showed to what extent communed life and ideas of local self government and developed in India. Sir Frederick after thoroughly going into the conditions of the Presidency submitted an exhaustive report to Government; Societies afforded an excellipt. versant with the social conditions of the Presi to operative Societies afforded an excellent means for relieving rural indebtedness. The report surveyed the growth of the co-operative movement in European countries the conditions favourable to its development in India if introduced and the difficulties to be encountered in introducing it and making it a success here Finally it contained for the consideration of Government a draft Bill for the organization of Co-operative So letter Sir Frederick pleaded for concessions to be given to the Societiessuch as exemption from the income-tax and remission of the stamp duty—as he felt that it would be possible to attract the people to the new movement only if Government showed its active sympathy towards it at the commence ment He ended with a fervent appeal to the non official community to find a Baffeison who would help the ryots of this country in achieving results again to those obtained by Residence request equal to indee contained by Residence noble efforts in Germany Un fortunately the report was not received favourably either by the non-official public or by the Government of Madras and no action was taken on its suggestions

Familine Commission of 1901 —The next few years saw two of the worst familines that India had ever suffered from and in 1901 Lord Curson appointed a Commission for report on the measures to be adopted in future to prevent families and to protect the ryot from their ravages The Commission laid stress on the proper working of the Agriculturists Loans and the Land Improvement Loans and the Land Improvement Loans and the Land Improvement Loans and the Land Improvement Loans and the Land Improvement Loans and the Land Improvement Loans are made to entitystors. This system was given a long trial in the years previous to the great families as well as during the ten years succeeding the 1890 1600 families. But it is acknowledged on all hands that the system has been a failure

as it is clear that it is not tacility for obtaining register and control the management of social capital alone which will rate the agritise. In the early stages of the working of collection of capital commend with the provision of capital commend with the and the response to the organizing work of the presidenties of habits of thirt and self-help. as we done that it is not make you obtained colors captal alone which will raise the agriculturals and reduce him from his debts but the provision of capital combined with the incellentian of babits of thrift and self help. The Logunission who recommended that the periodosi means of recisting families was by stability them of the sent configuration and it expressed its view that the precedention of cooperation in rural areas might be useful in securing this end

Co-operative Credit Societies Act — Three recommendations induced Lord Curron to appoint a Committee with Sir Etward Law at its head to investigate the qui stion and a Report was submitted to Government recommending that Co-operative Societies are very worthy of every encouragement and of a prolonged trial Sir Anthony (now Lord) Macdonall and others were at the same time making experiments on similar lines in the United Provinces and the Punjab with satisfactory results All these activities however took a practical shape only when Lord Curron with his seal for getting things done which made him famous in India took up the question in all carnestness and his Government introduced in the Supreme Legis lative Council a Bill to provide for the constitu-tion and control of Co operative Bocacties. The main provisions of the Bill which became the Co operative Credit Bocictics Act (Act or 1904) were

- (1) That any ten persons hving in the same village or town or belonging to the same class or caste might be registered as a (o operative Society for the encouragement of thrift and self-help among the members
- The man business of a Society was to raise funds by deposits from members and loans from non members. Government and other Co-operative Societies, and to distribute money time obtained by way of loans to members or with the special permusion of the Registrar to other Co-operative Credit Societies
- (3) The organization and control of to operative Credit Societies in every Presidency were put under the charge of a Special Govern ment Officer called the Requestrar of Co operative Credit Secretica
- (4) The accounts of every society were to be and the by the Registrar or by a member of his staff called the Auditor of Co operative Produt Societies
- (5) The hability of a member of a society was to be unlimited in the case of a Rural Society
- (6) No dividends were to be paid on the profits of a rural society but the profits were to be carried at the end of the year to the Reserve Fund although when this fund had grown beyond certain hints fixed under the bye-laws a bonus might be distributed to the members
- (7) In the case of Urban Societies no divided was payable until one fourth of the profits in a year were carried to the Reserve Fund

Some after the passing of the Act the local subscriptional and charitable institutions.

Conventments in all the Presidencies and major provisions appointed some of their best officers operative as part of the title of any business as Registers with full powers to organize concern except a registered society

most parts of the country

New Act Introduced—As co-operation progressed in the country detects were noticed in the Co operative Credit Societies Act and these were brought to the notice of Government by the Provincial Conferences held under the by the Provincial Governments in various Presidencies as well as by the Annual Conferences of the Registrars. In two directions the need for improved legislation was represally felt. In the first place the success of credit societies had led to the introduction of Co operative Societies for distribution and for purposes other than credit for which no legisla ther existing law And in the second place the need for a freer supply of capital and for an improved system of supervision had led to the formation of various central agencies to fluance and control the original credit society a and these central agencies ran all the risks attendant on a status unprotected by legisla tion The Government of India recognising the need for removing these defects decided to amend the old Act and a Bill embodying the essential alterations proposed was introduced in the Imperial Legislative (ouncil and after a few amendments it emerged from the Council as the Co operative Societies Act (II of 1912) replacing Act X of 1904. The outstanding leatures of the new Act were as tollows

- (a) It authorised the formation of societies for purposes other than credit which was possible under the old Act only with the special permission of the Iocal Government This extension of Co-operation to purposes other than credit marks an important stage in its development in India
- (b) It defined in pricise terms the objects for which to operative Societies could be organ
- (1) It removed the arbitrary division of societies into Bural and Urban
- (d) It facilitated the growth of sound central agencies by insuting on a limited hability by means of a special clause about the registration of a society one of whose members is a registered societs.
- (e) It impowered the local florerum at to trame rules and after bye laws so as to put restrictions on the dividends to be declared by societies and allowed them the discretion to sanction distribution of profits in the case of unlimited liability societies to their members
- (f) It allowed societies with the permission the Begistrar to contribute from their net of profits after the Reserve Fund was provided for amounts up 10 per cent of their remaining profits to any charitable purpose as defined in the Charitable Endowments Act. This kept the movement in touch with local life by per continuous accordance to lead undertakens. mitting someties to lend assistance to local

Composition tibe sen and some the Lurariti methods in their entirety The best course as pointed out by Mr Wold would have been to start a f w model societies and leave the movement to develop on the lines which most suited the peculiar requirements and conditions of the rountry The commonest type as in the Punjab Burma and the United Provinces was the nollmited liability society with a fec-for membership and a small share capital the share payments to be made in instalments some cases the system maketed on compulsory deposits from members before entitling them to enjoy the full privileges of membership the system in Bombay Bengal and the Ccutral Provinces was entirely different there being rroyleds was entirely different there being no share-capital but only a membership-fee Part of the working capital was raised by deposits from members and other local sympa thisers but the bulk of it was obtained by loans from Government and other to operative Societies In all the Presidencies the Govern ment set apart every year a certain sum to be advanced as loans to newly started Co-operative Societies usually up to an amount co-operators deposits from members raised by a society. This practice though necessary in the initial stages of the movement as stimulating the placing of deposits with societies in other cases led to crooked means to secure such deposits and sometimes worked as a real hardship in pour districts. In the long run it proved a hindrance districts In the long run it proved a hindrance to the development of the co operative spirit by having taught people to expect State ad for every new society. Happily State add in the form of money doles has now become an exception rather than the rule and this with drawel in no way hampers the growth of the movement on account of the rapid increase of inancing agencies like District and Provincial Central Banks and the growth of public con ideace. In the primary societies For agri relitural societies generally the four man sources of income are share capital deposits of southers to interne are states capital neglects or members loans and deposits from nen members and from Central and other Societies and the contribution to the total working repital each of these heads of income is of in round numbers that indicated below—

Constitution of Agricultural Societies. Composition of the Capital of Agricultural Societies.—On the organization of Agricultural Societies —On the organization of agricultural Societies —On the organization of the promotors, for it presented a far more important and far more difficult problem than industrial traditional societies that the same of the gradultural societies started in different provinces and some Registrars adopt to among the agricultural societies started in different provinces and some Registrars adopt to a fourth of annual profits where a two literates in many and some the Lavraciat positions in many to found but meet of these are labeled. the society gets a monthly pay of Re 1 to
Rs 5 with a bonus at the end of the year equal Ha 5 with a bount at the end of the year equal to a fourth of annual profits In parts of the country there are villages where a few literatemen may be found but most of these are hardly for enough to undertake the responsible work of a Secretary being practically ignorant of account keeping. In these case either the village school master or the village accountant known in Bombay as the Kulkarni or Talati known in Bombay as the Kulkami or Talast is appointed to the post with a reminieration a little higher than that paid to the Seoretary who is a bona-fide nember. In some places where a suitable person is not available on this low pay neighbouring societies are grouped together with a whole time well paid and competent Secretary. This arrangement which has its advantages involves the drawback that the outsider working as Secretary does not naturally feel as much interest about the Society sworking as a bone-fide member does

internal Management of Societies —The Managing Committee consists of 5 to 9 intelli-gent members of the Society the Charman being menally the leading person in the village The delity work of the Society is carried on by the Secretary but the Managing Committee supervises the work and has alone the power to admit new members to receive deposits, arrange for outside loans grant loans to members and take notice of detaulters The accounts of the Society are kept by the Secretary and the necessary forms papers and books are supplied from the Registrar's office to simplify the work of the Scertary The books are kept according to the rules framed by the local governments and are open to inspection by important local officials and the Registrar and his staff. The accounts are audited at least trees where he was a built of the contraction of the contraction. once a year by the Auditor of Co-operative Booletics and the Societies are inspected from time to time by specially appointed Inspectors. The loans are mostly given on the security of two co members or rarrly on the simple bond of the borrower Under the Act the Societies are allowed to advance loans on the hypotheare allowed to advance loans on the hypothe-cation of moveable or immoveable property and there is nothing unch-operative in this so long as personal security which is the central minciple of co-operation is given and the borrower's property only a secondary or collates ral protection. Mortgages are taken cocasion and loans for the liquidation of old debts. In some Prothess more teneral was hear hear Shares
Separate from members
Loans and deposits from other societies
State Ald
Reserv. Fund
In some Provinces more shared and deposits from other societies
State Ald
Reserv. Fund
In some Provinces metably me pumpab said Bounkey, the members shares and deposits from other societies
State Ald
Separate from the Pumpab said Bounkey, the members are shared derign 1913 it was refreshed to total amount from the pumpab said Bounkey, the members shares and deposits from more than 25 per cent. of the working separate.

if necessary a new charman and secretary is generally utilised as an addit on to their working cloud. The general meeting fixes the borrow capital though steps are being taken in some fing Hant of individual members lays down parts of the country to stop this practice and the maximum amounts upto which the Managing to maint on the Reserve being kept entirely committee may borrow during the ensuing year apa t from the working cap tal and invested dien mes members for misconduct or serious default and settles the rates of nterest for to the state of th are sometimes decreased All the net profits of the society are annually carr of the Reserve Fund which I indivisible that a meanable of distribution as dividend or bound which cannot be drawn upon without the sanct on of the Registrar and which must be invested. In such a manner as the Registrar prescribes to serve as an asset of security in borrowings to be carried to:

Except in the Central Provinces and Madras
the Reserve Funds of primary soci ties are members deposits

in Government securities or placed as floating deposits in reliable Central Banks. The Gov ariment of India state in the Resolution of 7th J no 1914 that while there may be advantages in the earlier stages in using the Res rw as part of the working capital of the society it should gradually as it becomes more society it should gradually as it becomes more important be set apart for separate investments. The amount of the Reserve Fund of agricultural societies as roughly 24 lakhs of Rupees and forms 6 9 per cent of their total habilities and with the addition of the last years profits to be carried to Reserve, 12 per cent of the total outside capital of the societies including semblant decapital of the societies including

Progress of the Movement ... The following statement shows the progress of Agricultural Societies in to the end of the official year 1913 14

Provinces	Number of Societies	of of Working		Reserve Fund	Net Profit during the Year 1912 13		
			Ra	Re	Rs	Per cent	
Madras Bombay Bengal Bihar and Orusa Unded Provinces Punjab	1 256 584 1 547 766 2 580 2 201	77 902 40 470 71 282 37 270 99 891 158 250	55 79 926 28 5 119 44 11 613 13 45 297 50 71 014 1 30 46 919	2 89 516 1 44 967 5 31 471 88 191 2 36 688 8 95,271	1 17 740 8 252 1 54 382 71 904 1 25 878 6 30 888	94 94 10 10 10 10	
Borma Castral Provinces Assam Coers Ajmer Mystre Baroda	1 214 2 087 224 31 802 410 248	29 889 94 313 11 536 2 899 10 387 21 870 6 918	32 85 894 25 76 239 2 90 887 1 0 393 7 85 511 7 00 120 4 23 807	2 81 824 77 145 40 091 15 896 11 638 48 220	1 85 885 50 482 13 364 6 113 21 455 31 840 24 543	15 12 12] to 18] 12] 12 12 9 to 12 9]	
TOTAL	14 538	599 82.	4 04 01 689	24 55 18	15 21 486	<del></del>	

The progress of the movement in different pact as in the case of agricultural societies provinces varies according to the activity in consideration work as firm an imperial conditions of each province—the prevailing rates of listerest being the most important of these. A few Native States have also introduced legisla tion a milar to the Co operative Scoret es Act in their territories and the most prominent of these are Mysore and Beroda Hyderabad dwalter and indore have only very recently introduced to operation in their States. The results of the experiment have been as satis factory as in British India.

Non-agricultural societies — Test as rural sometics are the means of resuscriating the againstrurial and other small village industries or bonns. There are a few serious drawbacks as close of societies called the non agricultural at the working of these societies and complainta societies has grown in towns and cities for language the seconomic said moral conditions of artistage and small traders, smallers of particulage outst and employees and of the complaints are that the spirit of comparting outst and employees and of the complaints are that the spirit of comparting the said of the complaints are that the spirit of comparting the said a second control of the complaints are that the spirit of comparting the said control of the complaints are that the spirit of the complaints are that the sp

pact as in the case of apricultural societies where every member may be expected to know every other incident Their constitution in based on the Schulze Deltasch model and in most cases the management is honorary chough somet mes when the sphire of society work is extended a part staff is employed work is extended a paid scan is employed. There is in all so letters a substantial share capital payments being made in matalments, and the rest of the working capital is obtained by local deposits from members and others and loans from co operative and Joint Stock Banks At the end of every year one fourth of the net profits must be carried to the leserve fund and the balance may be distributed as dividend or bonus. There are a few serious drawbacks in the working of these societies and complaints.

once they have started running on profitable Presidency but with these the spread of colines. The rates of interest on loans are at times higher than they ought to be and the men at the head of the societies are loth to admit new members who are in need of loans for fear of the latter cutting down the profits Societies of employees of firms rallway compaples and Government offices and societies for the redemption of the debts of men of the so-called depressed classes however work on sounder lines and provide good instances of the success ; of 1 on agricultural (o-operation A few labour ers societies have been started in the Bombay

operation among the labouring class in industrial c ties ends There are, again a few see et es on the lines of village Popular Banks of Rurope to assist small 1 on agricultural traders and art sans and some efficient societ es comprisina members of particular communities Some of these non agri ultural oc eties after meeting the needs of their members have large balances on hand which they are allowed with the previous sanction of the Registrer to advance to smaller societies

Progress of Non agricultural Societies — The following statement shows the progress of Non-agricultural Co-operation up to the end of the year 1913 14 -

Provinces	Number of Societies	Vumber of Иетb⊬њ	Total Working Capital	Roserve Fund	Vet Profit during the year 1912–13
Madras	66	21 604	Ba 15 21 889	Ha 89 703	Rs 67 442
Bombay	125	26,525	19 65 168	67 348	75,578
Bengal	×0	14 352	12 90 049	52 762	46 895
Bihar and Orisa	41	12 17,	1 49 019	173	1, 448
United Provinces	185	ə 7əə	4 37 428	18 8,2	14 900
Punjab	J4	, 263	ქამ ნახ	19 J <b>51</b>	21 924
Burma	49	1 414	6 14 19ა	#3 031	46 182
Central Provinces	8,8	1 778	96 286	10 864	8 083
AMBRID	16	1 672	2 22 3 ეა	12 863	11 906
Coorg					
Ajmer				j	
<b>Мувоге</b>	109	18209	11 16 207	42 491	75 148
Baroda	13	655	ა8 389	837	1 185
T OTAL	806	109 694	83,24 670	3 85 pm	3 86 696

NOTE -The rates of interest on loans in the different provinces are the same as in the case of the agricultural Societies

Loans advanced - The total amount of loans advanced to members by agricultural and non agricultural societies during the year 1913 14 were Ra 3 02 63 014 and Ra 7 25 163 respectively as against the total of less than Ra 25 lakhs issued by both these classes of soc etcs in the year 1906—Reports from all the Pro v nees do not give statistics regarding the objects for which loans are advanced but from those published in some of the Provinces it appears that the percentage of loans given for cultiva-tion expenses by agricultural societies is 6 in Madras 9 in Bengal, 14 in Behar and Orisea 9 in the Punjab and 24 n the tentral Provinces and that leans for purchase of cattle form 11% 10%, 14% 20% and 40% of total amount of leans advanced in the respective Provinces Loans for repayment of old debts are frequent as is apparent from the fact that in Madran them expenses purchase of live-stock, fodder,

they form 44°, of the total amount of loans given in Bengal siso 44°, in Behar and Or isa 25% in Punjab 17° and n the Central Pro-As the movement propresses the vinces 24 being more and more realised that the early clearance of a member from previous debta after his admission to a society is very desirable and greater attention is being bestowed by the Registrars on this question. It is impossible to ans at on the restriction of loans to productive objects and there are circumstances under which unproductive loans are permissible and even advisable. What should be and generally is borne in mind is that precautions are taken by societies that the expenditure is inevitable and that it s not excessive in demand. The

seed, manure and agricultural implements is antisupprovement and sinking of wells purchase of District Central Banks A large number of new lands and personal maintenance in times of agricultural societies as a seasoft to purchase of raw materials to property of trade for house building given and the advance under this head rose and (or noof and other necessaries of life in the from Ba 234,733 in 1993-07 to Ra 934,603 case of ron-agricultural societies. The terms in 1911 12 and Rs 11 46 920 in 1918 14. With case of ron-agricultural societies. The terms of the loans are one year or less on those for unright needs whether for agriculture or petty trade, and up to five years or so on loans for liquidation of old debts or for land improvement. The percentage of the loans repaid by the mambers in 1913 14 to the total amount of loans orbitanding in 1912 13 and advanced in 1913 14 was 29 5 the average for the last four years bring 31 per cent. An unsatisfactory feature of the co-operative system in some of the Provinces is the laxity and unmentrality to the matter of reasyment. and unpunctuality in the matter of repayment of loans by members and a general apathy in the matter on the part of societies. The amount the matter on the part of societies. The amount of loans overdue from members at the end of the year 1913 14 stood at 13 per cent of the total outstandings due to societies. As co-operation is both innacially and educationally operation is both financially and educationally a failure unless promptitude of payment is ensured no efforts are spared by organizers to educate societies in this respect. The Coperative Societies Act grants to secieties priority of claim against other creditors (except the State or the landlord) to emforce any out standing demand due to the societies from members or past members upon the crops or other agricultural produce and upon the cattle fodder or agricultural implements in cases where loans have been advanced for the purposes specified. But not content with this some commentary have beaded for special powers. oc-operators have reasoned with this some oc-operators have pleaded for special powers of recovery of loans under which overdue loans may be recovered as arrears of land Most local Governments have framed ватение rules under the Act enabling the Registrar to refer disputed claims to arbitration and to enforce the award of the Berlietrar in the same manner as a decree of the Civil Court No local Government is likely to great nor the Government of India to sanction a special process under which claims against defaulting members may be recovered according to pro-cedure allowed for the recovery of arrears of land revenue. For the existence of a special man revenue for the extingence of a special privilege of this character cannot but lead to larify in the selection of members and carchemens in the granting of loans

The Financing of Agricultural Socie-ties.—As soon as the initial stage of the move-ment had passed a very urgent problem had to be faced. This was to finance the agricultural societies that were growing in all directions. And the problem was solved in different provinces according to the special conditions and the growe of development the recognitions provinces according to the aprelsa constitutions and the stages of development the movement had attained therein. In Madras a Cutral Beat which less to Co-operative Societies. in the Presidency, was started without Govern ment aid as early as in 1907 This was followed by the starting of banks at district head-quar-ters. In other Presidencies District Banks were established making good the deficiency in the local capital of the societies within their districts and in some places Joint Stock Banks were perwasted to make newances direct to Bank has yet matured.

in 1911 12 and its 11 46 E20 in 1918 14. With the progress of the movement however this ald was discontinued and the only Province which continued the practice was Bombay kinding Bs 25 489 in 1911 12 An important cause which led to the continuance of State aid in Bombay was the pancity of Central Banks in the Presidency and the refusal of the Commercial Banks though constantly approach ed to help agricultural societies When ed to help agricultural societies When owing to the unwillingness of the ordinary Banks to participate in the movement the Registrar found it extremely difficult to have segment found it starting difficult to account to exact the small number of societies in the Presidency properly financed Sir Vithaldas Thackersey and the How Mr Labhhai Samadas submitted to Coverament a scheme to establish submitted to tovernment a scheme to establish a Central Bank for the Presidency provided certain assistance was promised by Government as a result of the negotiations that followed the Bombay Central Co-operative Bank was founded in October 1911 with a share capital of Re 7 lakhs and with power to issue debentures at 4 per cent up to three times the armore of the need no steep control that the amount of the pend up share capital, the the amount of the paid up share capital, the Government guarant: ing payment of interest on the debentures till their repayment. The Bank was authorised to lend only to registered co-operative societies in the Presidence with the previous sanction of the Registrar in the case of every individual loan. As an indirect result of the setablishment of the Bonnbay Central Bank a number of District Banks have since been started in the Presidency.

The drawback of the Bombay and the Madras Central Banks is that neither is a co-operative Apex Bank in the true sense of the term as there are no District Central or Agricultural Societies that are members of or affiliated to it and therefore interested in its success and therefore interested in its success A Provincial Bank with three tentral Banks affiliated to it is in existence in Upper Burma and this Bank finances primary societies either through the affliated banks or through the guaranteeing or supervising unions composed of societies An Aper Bank has recently been started in the Central Provinces to form an immediate link between the District Banks an immediate link between the District Sanks in the Province and the Commercial Sanks in Allahabad and elsewhert. It has worked well and its success led to the establishment of a Previncial Sank with a similar constitution in Behar and Origea. A scheme has also hear as front for harmy a Provincial Sank been set about for having a Prouncial Apex Bank in Bengal, whereas also in Biher and Orisas the Primary societies are at present financed by Central Benks at district or tanks head quarters. In the United Provinces prihead quarters in the United Provinces primary societies are financed on the same system and there too a Provincial Apex Bank under which Central Banks will be federated is in process of formation. The Punjab has a Caniral Banking system and though sooner or later it too will have an Apex Bank, no definite proposal for the establishment of such bank has the metablishment of such

The Working of Central Societies.—The following statement shows the number and the constitution of the Central Societies in the country up to the end of the year 1913 14

Provinces	Number of Societies	Number of Nembers	Total Working Unpital	Reserve Fund	Net Profit during the year 1912–13	Lenal Rata of Interest on Louns to Societies
		i	Rs	Rs	Rs	Per cent
Madras Bombay Bengal Bihar and Onssa United Provinces Punjab	16 40 12 35	1 173 1 682 4 729 1 142 12 959 2 379	52 19 369 18 13,516 32 63,582 8 65,221 59 09 746 41 55 052	74 029 6 239 15 658 14 861 3 11 477 33 154	97 728 29 824 84 505 28 423 1 40 176 90 454	7 to a 12 12 12 8
Burma Central Provinces Amam Coorg Almer Mysori Baroda	90 34 9 5 11 3	2,748 6 131 421 421 795 178	26 57 114 9 17 007 1 63 923 7 50 324 3 49 515 1 28 800	29 524 40 26. 449 7 374 2 111 441	82 412 75 578 6 096 23 025 9 643 15	9 7 & 9 8 10 7 1 81 7 & 9
J OTAL	329	34 710	2 90 37 180	5 60 790	6 38,57	

These figures include five Banks which may be treated as Provincial Panks one Central Sale Society in Burma 220 Central Banks and 103 guaranteeing and supervising Unions. The constitution of Central Banks in not uniform, but the existing Banks may be classified under three general heads—(1) Banks of which the membership is confined to individuals or where societies are admitted as members or where societies are admitted as members connectly the same footing as individuals (2) Banks of which the membership is confined to Societies, and (3) Banks which include Societies and midviduals as their members and secure to societies separate representation on the Board of Directors. The aumber of Central Banks in the various Provinces (exclusive of Native States) failing under each of the three classes described above are approximately as shown below—

	(1)	(2)	(8)
Madras	4		5
Bombay		1	- 2
Bengal	3	6	24
Bihar & Orissa		1	13
United Provinces		34	41
Punjab	12	20	ŧ
Burma			2
Central Provinces			28
Assam	2		4
Ajmer			5
Total	21	42	126

Functions of Central Banks —The functions of Central Banks are to belance the Junda of Societies and to supply capital Buttheir duties should not be limited to the provision of banking facilities only but should include the importion and supervision of so-

cleties. Hence where the tentral Banks are not formed on a capitalist bans they per form the functions of supervision and control of the Societies and listed to them and in some Provinces they also organise new Societies and even take up the entire educational work now done by the Registriar They may also be expected to supplement in lieu of a small fee to be paid by the societies the auditing work done by the Registriar who now find it very difficult owing to the increase in the number of societies to cope with this work with the limited staff at their disposal Usually the tentral Bank is only possible for the whole of a district as the personal necessary for its successful working would be difficult to secure in a smaller area. However in different parts of the country we notice the extense of Central Societies The creation of such bodies has been facilitated by the amended (0-operative Societies Act which came into force in 1912. Previous to the passing of this Act, Central Societies were started unsystematically in various Previaces saccording to local ideas but their formation has been made uniform by the new Act Insecting on a limited liability in the case of a certical Societies are unions which may be described as federations of societies which are maintained for supervision, either combined or not with the assessment of guarantee of loans to primary societies and which do undertake banking business. There are 103 such Unions in the case of the passing the date of the passing the time country Burma having Wo Bengal? Madras 4 and Assens 2

It may be mentioned that m most of the Provinces the work of organising and looking singlethe collected is done by the Beststrar with the help of assistants and a few homeless, non-official workers. When the Control Beach

number of honorary workers is steadily increas-ing and a some Pestlendes there is a band of specially appointed Honorary Organisers who regularly assist the Registrary There is however scope for Organisation Societies on the times of similar institutions in England and tee and of the District Sanks and Unions are amiliated to a Comparative Provi cial Apex Bank, it may be possible to have an Organizatim. Department of the Bank with Organizati in branches in the districts

Store Societies .- After the passing of the new Co-operation to purposes other than oredit was greatly exceeded, but as yet the re has been no general demand for productive and distribu tive co-operative societies as is noticeable in England and elsewhere. At the end of the year 1913-14, there were very few store societies in the out it; the Madres Presidency claim in 10 of these with a mi morreship of 4 464 and a working capital of R 2,40,280 An important jadustry which fluorished in India before the at oduction of mathinery was the Band icon Weaving Injust y and efforts have been made to revive t by the formation of produc tive co-op rative so 1 these flundhoom weavers The Wavers So leties are not me ely ordit

system has properly developed, the Directors store branches to sell the cloth produced by of the Central Bank either thannelves or through a pend agency organies societies and the Central Provinces as stated above supervise their working. The prominently in Sombay the United Province, and the Central Province, laferolucing improved home and methods amongst the concrative weaving classes. The number of these necisties in Bombay is 29, in Bongal 3, in Madras 1 in the United Provinces 2, (excluding a number of waters credit societies 4) in the Central Provinces 51 in Burnas 4, and in Assam 4

The other Productive Societies are those for the other Productive Societies are those for gadless or milkinen dyers, basket and brass worker in the Central Provinces and Chammars and Ghorts in Bombay There are also building societies in Madras a samin dail society in Bengal, and a Spazi Factory work d on no operative lines in Bonares. A Housing Society has been started in Bombay and a Hous ng Association has been founded to encourage the formation of more such socie the. There are a few dairy societies the most well known of these bing those at Lucknow and Benares. Burma possesses a novel of type and bearies. It is also a proper in the matter of co-perative in urance and has a so Ca the Insurance Societies with a membership of 1 089 Nine Cuttle Insurance Societies have also been started in Coorg and 1 in the Unitel Privinces The total number of non-agricult societies whether agricultural or non-agricultural is only 249 The following table exhibits year for members and us some cases, have the different parts of the country

Fype of	Society	Vadra	Вода раст	Bengul	Dingr mid Chisas	United Pro	Punjah	Burma	Central Provinces	Assam	(001)	Ajmer	Torn
Purchase or Pur chase and bale Production Production & Sal- Insurance	( Non Agricultural, Agricultural, Agricultural , Non Agricultural , Non Agricultural , Agricultural , Aco Agricultural , Agricultural , Agricultural	10	27 11 1	1	¥   	1 10	19	63	1 1				6 11 1 3 78
Others	( Non Agricultura).  Agricultural	5 6	2	3 	 			30					10 8
	GRAND TOTAL	22	45	4	2	17	23	122	5		0		249

Agricultural Co-operation—Axicultural for the storage of fodder may assist in solving societies have until recently been engaged only in applying cheap credit to their members in supplying cheap credit to their members to the coordinate to the started with advantage receiver and described in the data allowing these to accommandate to be sold at profitchle rates or altertionate to the members in times of sour distributed to the members in times of sour distributed to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members in times of sour additionated to the members of good unusualizated to the mem

a great boon and a few such stores have been agriculture and co-operation have experienced established in Madras, Bengal and Bombay the assistance which each can derive from Government has of late made attempts to association with the other they are fast deve toveriment has of tage made attempts to bring the co-operative movement in close touch with the Agnicultural Department Co-oper-ation has already been successful to a consi detable extent in redeeming the chronic indeb tedness of the agriculturist but if the improseames of the agrantiant but it too improvement in his conomic condition is to be permanent it is essential that he should be prevailed upon to adopt improved methods of production The Agrantianal Department of production the agreements Department does undertake propagandst work with this object but its riforts have not proved as successful as they ought to be A Co-operative Society provides just the effective agency to reach the agriculturate and in many places societies have been the means of bringing home to the agriculturist the need for improwed methods by being made the centre for the propogandist activities of the Agricultural Department and Ulstrict Agricultural Asso-ciations As a result a few societies have been enterprising enough to purchase modern agricultural implements recommended by the Department and to use the proper manures and the pertified varieties of sends Whenver

absorbation with the other every are har every lepting a truly organic connection. If the reorganisation of indian agriculture grows apace with the apread of co-operation there is no doubt that rural India will soon present a happier outlook than it does at

With the establishment of factories in India an important labouring class has grown up in big industrial towns and this class is as deeply indebted and as badly remunerated as the agriculturists Co-operation if introduced agriculturists Co-operation if introduced among people of this class would open a new life to them besides being the means of their economic regeneration. No serious efforts have hitherto been made in this direction as urban co-operation has hitherto been confined more or ov-operation has mitherto been confined more or less to middle class prople A few mill bands and working men's societies have been organised in Bombay but these should be multiplied a bundredfold among all classes of factory labourers so that it successful, they may be come the forerunners of a healthy Trade Linonlam in India

#### RECENT GOVERNMENT ACTION

In July 1914 the Government of India and inspected 135 societies of various kinds. Issued a tengthy Resolution on co-operation In its report which was issued in September in India, surveying its procress in the committy 1915 the committee stated that it had not during the last ten years. Though the Resolution is optimistic in tone it criticizes impartially the drawbacks of this new movement partially the drawbacks of this new movement in India. It particularly emphasises the urgency of a proper financial organisation of societies and states that the responsibilities introduced by the addition to the co-operative organization of central and provincial banks are of a serious character. To supervise the relations of such institutions with the money market on the one hand and with their constituent societies on the other is a task which requires a constituent soleties on the other is a task which requires a constituent degree of technical skill and the administration of the whole co-operative movement in the stages above that of the individual society is a matter which must in the immediate future engage the serious attention of Government and of the people In October the Imperial Government appointed a strong Committee ui dei Sir Edward Maclagen to examine whether the movement of recally deposits in someties. It is recommended that to oxamin' whether the movement of recally deposits in societies in the secommended that was progreeing on sound lines and to suggist as to allow the Annual General Meeting to any measures of improvement which recall deseas and fix every year the total borrowing to be required. The enquiry was to be directed power of the Committee and the normal mexi was progressing on sound lines and to suggest any measures of infrovement which seemed to be required. The enquiry was to be directed primarily to an examination of such matter. as the const tution and working of Cortral and Provincial Banks, the financial connection between the various parts of the co-operative organization, the sulft inspection and manage ment of all classes of societies, and the utilizament of all classes of accieties, and the utiliza of the extent thro of the reserve funds. The scope of the coveries from members, it has refused to enquiry was however, in no way rigidly limited by the Government of India for the Com procedure in the execution of decrees and militee could at its discretion consider and make account on the executions regarding any important agency for the recovery of ebrts due to redictive support of the cooperative movement. The in the opinion of the Committee it is necessary excluse sentres in the larger provinces of India for all co-operative institutions to build up a various centres in the larger provinces of India for all co-operative institutions to build up a few of the control of the committee it is necessary and examined during this tour 93 witnesses

confined its enquiries to the subjects referred to it for it had to recognise that the financial welfare of the higher stages of the oo-operative system was largely based on the soundness of system was largely based on the soundars of the foundation. At the outset it may be remarked that in view of the present prepond derance in the number of agricultural credit is deties and the similarity of the general principles which guide all classes of co-operation. the Raport deals mainly with the institutions established for providing agricultural credit. In treating of primary sceleties the report points out the extreme care necessary in the formation of new societies and urges the extreme importance from the standpoint of efficiency and financial stability of systematically inculous cating the main principles of co-operation. Stress is laid on the encouragement of their and the Committee thinks that every effort should be made to increase the amount of local mum borrowing power of each member. The Committee advocates the taking of sureties in all cases and the rigorous exaction of the sureties liability when necessary and deprecates an exten ive use of mortgages. While advo-cating the full use of the existing law in respect corried capital to stuply their working many cases involve a considerable raising of needs and to meet the claims of creditors can liquidistion. Stress is laid on the lending rates The Committee naists on the cooperative in the case of primary societies which takes despotes of providing for themselves wishing in their own investments or by arrange. Banks the audit of secounts should be done on meetic with the financing institutions an ade payment either by professional or Governments with resource. After partiarying the lagging the Registers being responsible for the quate field resource quake fight resource. After satisfying the requirements in this direction, where necessary requirements in this direction, where nocessary primary societies should be left to utilize their stratus assets in their own business. The function of supervising the primary societies devotes according to the Committee on the paid for by the societies and responsible to paid for py the socialities and responsible to been as also to their financing institution. These duties it is added, can be performed most in conformity with true to-operative methods by the formation of granaucering Unions of societies on what is known as the Burms model. These Unions form a link between the duanting agencies and the rottetles and bring the societies together most effectively for the purpose of mutual supervision, assess ment of credit and recovery of loans. In the view of the Committee, a guaranteeing Union of some kind i advisable where the financing agency is a Central Bank, and essential in where a Bank dealing with a whole province attempts to deal with societies without the intervention of a Central Bank. Central Banks are at present of three classes according as their shareholders are all individuals all societies, or some individuals and some socie ties and while advocating the disappearance of the first class and the ultimate adoption of the second the Committee policyes that for the present the third or mixed form of constitution To balance the ex offers the pest advantage. To balance the exsupply them with funds it advocates the found ation at an early date or a co-operative leastitution at the head of each Province which does not now possess one These institutions too should to the Committee s opinion have a mixed constitution in which individuals and co-operative Banks should both be represented in view of the peculiar nature of co-operative finance the Committee recommends that the period of deposits accepted by Couperative Institutions should ordinarily be as long as possible but that only in v rv special cases where Central Banks are in a position to secure depentures on immoves he property should capital be talsed by debentures. The necessity capitat be learned by or centuries. The necessary but bullings up an owned capitat is emphasised as also the special necessity for central mannets. The Committee comments on the absence of isolithties for discounting or questative paper and on the urgency under the circumstances, of Central Banks maintaining

payment states by presenting responsible for the impection and general supervision of these societies. For primary societies the Committee thinks that the anditing staff may be divided into two sections (a) a staff maintained by Government for super audit and (b) a staff GOVERNMENT for super name and (1) a such maintained by co-operative methodisons for original audit. The only promotent administrative concession recommended by the Committee is the introduction of a special procedure. nuttee is the introduction of a special procedure for recovery in liquidation and another concession which may be much availed of it adopted is the suggestion that where loan-under the Agriculturists Loans or the Land Improvement Loans Act are being given by Government on a large wale it should be open to societies to receive such loans for distribution to their members. The Committee recognizes that with the growth of co-operation a new factor in district administration has come into being and therefore desires that the District Officer be entitled to attend all meetings of Central Banks in his jurisdiction though it deprecates the devolution to the District Officer of duties assigned noder the Act, to the Begis or dutter assigned inder the Act to the Heggis tray or any general arrangement for making him an ex officio Chairman of the Central Bank at District Readquarters. The Com-mittee recommends that two controlling officers should be employed in each pro-vince and that there should be a Registrar or controlling Joint Registrar for every 1 000 or fraction of 1 000 societies registered. The Registrar should be a whole time officer and his post should be included as a Collector's post in the cadre of the included as a Collector's post in the eadre of the Province the special qualification for the post being that he should be well versed in cooperative literature relating to all countries and should it preside have pained some personal experience of the subject in Europe The Committee has examined a proposal for the coordination of certain economic departments including those of Co-operation Agriculturand Industries under a single officer of high structure and the each Devine and he recommends standing in each Province and has recommended that a move be made in this direction as opportunity offers. The need for closer control by Government over the objects for which the oo operative organizations utilized and over the financial arrangements of the movements emphasized and to meet the latter it is sugges ted that an officer with co-operative experience be appointed to act as Adviser to the local and Supreme Government. The Committee has finally examined the effect on the co-operative contentiate paper and on the ingency under the circumstances, of Central Banks maintaining final resources sufficient to meet half the desposits due for repayment within the next trivity numbrs a standard of one-third being stricted in the case of Provincial Banks. As in the case of primary societies, central institution of the present war and states that the Covernment has higherto given direct financial in the case of Provincial Banks. As in the case of primary societies, central institution to co-operation in three ways only vice in the case of Primary societies, central institution to co-operation in three ways only vice in the grant of initial advances to new islocks from may after satisfying the requirements of the Bombay Central Bank and the first committee represents that the committee of the Bombay Central Bank and (3) by special advances in two Provinces to recommendations regarding the first from the committee expresses in committee of the Bombay Central Bank and the first committee of the Bombay Cen

of money doles and of undue concessions, but ) or money done and or make the move-sent self authong it will be necessary to provide some means of redsounting the pre-motes of societies either through the Press dency Banks or by means of a State Co-operative Bank and recommend that a careful examination be made of this question. The recommendation of the Committee are under consideration by Government

Education -- It 18 Defective persence of those who have to deal with the organisation and management of rural some ties that the and state of education among the agricultural population is not only a real hindrance to the development of co on ration but seriously endangers its very existence. There are villages where no schools exist and where there is hardly one individual who can where there is through one mutratus; who can read and write tolerably well. In most vil lages a few literate people can be found and it is these that form the nuclei of co-operative societies Their ignorance in other matters is often so abysmal that it is hardly possible to matil into their minds even elementary notions of co operation Happily there are different kinds of villages where about 30 to 40 per cent of the population are able to read and write and where one finds a dozen intelligent men who can understand the elements of co-oper In a large number of societies as has been pointed out previously the secretaries who are the real managers are not bond Ade members. This it may be urged is con Ade members. This to may be urged to countrary to a fundamental principle of co operation that there should be internal manage ment of the business but it can scarcely be helped in a country where there are only a few among the total village population able to keep their accounts much has to undertake the management of a society it is true that co-operation provides a higher type of education but when the ground work itself is lacking it is impossible to build up the super etenerire

Social Reform -Co-operation

take a lively interest in the internal work of their societies. There are a few cases where a society has set its face against drenkenness. expelled members notorious for their intemperate habits and has in other ways worked for a better morality by insisting on a high stand and of his Societies have occasionally con demned excessive and even heavy expenditure on marriages and bare thus indirectly trained members to the habit of thrift Liquid ation of old debts again line been rendered possible to a great extent and many an agri enitures who was formerly in a state of chronic indebtedness has been redeved of all his debts and freed from the necessity of incurring new ones. Credit has been much obseptend and it is now possible for the agriculturist to bor row at 0 to 18 per cent what he could not borrow at less than 20 to 75 per cent for It has been calculated that in interest merly It has been calculated that in interest alone the agriculturists of India, by taking loan from co operative en dit societies instead of from the village money lenders are oven now saving themselves from an unnecessary burden of at least 20 lakes of rupees. The village rates of interest have naturally gone down comet derably and the Sowiar is, in most places not the terror and the force that he was Business habits have been inculcated with the beneficial result that the agriculturist has learnt to conduct his own work more effect ently thrift has been encouraged and the value of savings better appreciated pation in the management of societies has brought home to the members the important lessons of self help and self reliance but the most important achievement of co-operation most important achievement of co-operation has been the installing of a sense of communal life—a feeling of all for each and each for all amongst the members of a coperative body. If these signs become as common as they are now rare and if, over said above the economic benefits achieved by it co-operation succeeds in its true aim—the building up if the character of the people and the promotion of their weiters by the in culcation of the deas of thirft and the prince ples of self-lieby and above all by abowing some places summisted the deare for education of the ideas of thorft and the principal and members of rural societies, have been the window of munal help and above all by abowing the window even at advanced age to receive the amongst the edighbours a resuscitation of rural telements of education to enable them to put life conductive to a better national life will their signatures on the society 5 papers and to not be far oil.

# The Cocaine Traffic.

is said to be very effectual in keeping people awake. In India the Coca plant seems never to have been cultivated on a commercial scale. to have been cultivated on a commercial scale at has been grown experimentally in the teadistricts of Ceylon, Bengal and Southern India and has been round to produce a good quality, and quantity of cocaine. As the plant has not been seriously outlivated and as there is no possibility for the present of the drug being manufactured in India no restrictions have as well heavy should not the unitivation. yet been placed on its cultivation

Spread of the habit.—The cocaine traffic in India which seems to be reaching slarming proportions in spite of legislation and strict preventive measures is of comparatively recent growth though it is impossible to estimate how widespread it was in 1903 when the Bombay High Court for the first time decided that cocaine was a drug included within the definition of an intoxicating drug in the Bombay Abkarl Act Slace that date the illegal sale of cocaine in India has largely increased and the various provincial Excuse Reports bear witness to the spread of the "Ocaine habit. The consumers of the drug, which is notoriously harmful are to be found in all classes of society and in Burma wen school children are reported to be its victime but in India as in Puris the drug is mostly used by prostitutes or by men as an approdukte. The habit has spread chiefly to those classes which are prohibited by religion or caste rules from partaking of liquor and the well known Indian intoxicating drugs

imports from Europe—Cocaine and its alied drugs are not manufactured in India, but are imported from Germany France England and Italy Most of the drug which is smuggled into India, comes from Germany and bears the mark of the well known bones of E Merch. Dermstadt. This firm manes cocaine in flat packets of various sizes ranging from I to 8 ounces which are easily packed away with other articles and greatly favour the methods of smugglers. Owing to its strength and purity cocaine eaters prefer this brand to any other in the market Restrictions on export from Burope have been under consideration for some

The form of cocaine chiefly used in India is Lucknow Meerat, Labore Mooltan, Surat and Cocaine Hydrochloride. This salt forms light shining crystals with a bitterish taste and is stiming in half its weight of water. The alkained cocaine trade. Great linguality is notorious founties that it as salt—is obtained cocaine—of which this is a salt—is obtained cocaine—of which this is a salt—is obtained committed in the leaves of the Erythioryion Cocaine through the cocaine—of which grows in Bolivia, Peru Java Brazil and other parts of South America. The leaves are in truthes which have secret compartments unost softw when freshly dried and are much tased by the Native as a stimulant. Tea much cased by the Native as a stimulant. Tea much cased by the Native as a stimulant. Teamed actual retailers there is a whole grown of from them has a taste slimilar to green tes and is said to be very effectual in Keeming neopole it he Erone and Police Officials and give the watchmen and patrols whose duty is to shadow the Excuse and Police Officials and give the slarm when a raid is contemplated In spite the Exuse and Police Officials and give the saarm when a raid is contemplated in spite of these precautions many big setures have been made in Bombay Calcutta, Karachi and elsewhere in Bombay all Austrian and German ships are watched day and night by special officers, during the whole time the vessels are in port. This has resulted in smaller quanti ties being landed. The total quantity of cocaine seized in the Bombay Presidency during 1918 14 consequently fell to about 850 ounces There was a further r duction in 1914 16 as only 635 ounces were seized and for this the war is responsible

war is responsible

Price—The cocaine setzed is either given to Hospitals in India or destroyed. It is no longer possible to buy cocaine from any betel nut seller as it was ten years ugo but scores of cases in the Polles Courts show that the retail trade thrives though to a diminished extent in Bombay High profits ensure the contamance of the trade. At present the English quotation is 12 shillings per ounce and the price as sold by heensed chemists in India is about Rs. It per ounce. Owing to the war and the consequent stoppage of librat importations from Austria and Germany it is not possible to buy the smuggled drug from the wholesale lealers for less than Rs. 30 to 85 per ounce and when sold by the grain the price realized varies from Rs. 300 to Rs. 260 per ounce Those profits are further enhanced by adulter atton with phenacetin and Inferior quining ation with phenacetin and inferior quinine

The law in regard to Cocaine - This varies m different provinces A summary of the law in Rombay is as follows No cocaine can be in hombay is as follows. No cocaine can be imported except by a Hoensed dealer and in portation by means of the post is entirely prohibited. The sale possession transport and export of cocaine are prohibited except under a license or permit from the Collector of the District. A duly qualified and licensed Medical practitioner is allowed to transport or remove 20 grains in the exercise of his proor remove 20 grams in the execute of the pro-lection and as far as 6 grains may be possessed by any person it covered by a dona fite pre-scription from a duly qualified Medical practi Exorpe have been under consideration for expert from time but as yet no international scheme devised to that end has been agreed upon

Samutgiling—So far as the cases already detected show the persons who smuggle the distributions of the Austrian Livyd and Florio Rubattino 8 S Companies. The ports through which coaine of the Austrian Livyd and Florio Rubattino 8 S Companies. The ports through which coaine of the Austrian Livyd and Florio Rubattino 8 S Companies. The ports through which coaine casters India are Bombay Karachi, Calcutta, Madras, Marmagoe and Ponditherry The implicament under the Excise Act with or ross in bland distributing centres are Delhi without a fine up to Rs. 1000

### INDIAN TOBACCO

The tobacco plant was introduced into India | good eigarette tobacco | Many attempts have v the Portuguese about the year 1805 | Au | been made in the past to introduce into India by the Portuguese about the year 1805. As in other parts of the world, it passed through a period of persecution but its ultimate distribution over India is one of the numerous ex amples of the avidity with which advantageous new crops or appliances are adopted by the Indian agriculturist Five or six species of Nucriana are cultivated but only two are found in India, namely N Tabacum and N rustice. The former is a native of South or Central America and is the common tobacco of India About the year 1829 experiments were conducted by the East India Company towards improving the quality of leaf and per feeting the native methods of ouring and manu recting the native methods of curing and manu facturing tobacco. These were often repeated, and gradually the industry became identified with three great centre. namely (1) Easted and Northern Bengai (more especially the District of Rangpur) (2) Madras Trich nopply Dundigul, Coconada and Callout m Southern India and (3) Rangoon and Moul mem in Burma Bengal is the chlef tobacco growing Province but little or no tobacco is manufactured there. The thief factories are near Dindigul in the Madeas Presidency though owing to the imposition of heavy import duties on the foreign lest used as a clear wrapper some clear factories have been moved to the French territory of Pondicherry

The question of improving the quality of Indian tobaccos has becaused the attention florts are being made to establish exot (s. of the Botanical section of the Agricultural Research Institute Puss and three Memoirs were not published recording the results of continue but whether they will prove oggi investigations in that direction. The imme mercally successful remains to be proved and diste problem at Puss is the production of a lindeed seems somewhat doubtful

the best varieties of cigarette tobacco from America but the results have been disappoint-America but the resurts have been disappoint-ing it is now hoped to build up by hybridisa-tion new kinds of tobacco suffed to indian conditions of growth, which possess in addition the qualities necessary to obtain a better price

Mr James McKenna in his recent report on Agriculture in India" wither—

"The ordinary Burman and Indian cigar
has an increasing popularity—about 12 million
pounds are exported—and exports increase
line a cheap and a good cigar, but it is capable
of improvement principally by a b tter outer
leaf or wrapper of finer tobacco. We should
therefore aim at increasing the outurn of
termine Indian closers improved as they can penuloe Indian cigars improved as they can be without loss of their individuality by the se laction of leaf and at decreasing the imports of foreign eigerettes by producing tobacco suitable for this purpose. The present coarse varietlesseem to meet the local taste and that of our main export markets which are Aden and its loop adencies and the Far East There however no reason why these local varieties should not be brought to their highest perfection by selection or why improvements abould not by societion or why improvements about not be possible in curing The most pressing commercial problem, however is to coust the foreign eigenvite. This quest on has been taken in hand in Ecogal and Bombay where

The area under tobacco in British India was 1 002 000 a res in 1912-14 as compared with 965 000 acres in 1912-18 and 969 000 in 1911-12. The following statement (prepared in the office of the Director of Statistics India shows the imports and exports of tobacco by sea from and to foreign countries during the last three years —

	1912-1	1+13-74	1914-15
Imports	_ Lbe	lb#	164
TobaccoUnmanufactured	286 501	281 833	167 834
Manufactured— Flymrs Cigmrettes Other sorts	12 800 1 400 ~ 3 541 ~44	78 908 1 591 138 308 011	51 407 1 459 800 550 969
* Total	2 352 118	2 457 690	2 219 515
EXPORTA.			
Fobacco—Unmanufactured Manufactured—	19 581 947	27 817 318	16 490 045
Oigats	د743 97 1	1 825 535	1,788 959
Cigarettes Other sorts	14,399 353,286	19 059 351 <b>91</b> 4	88,164 419 557
Total	21 698 607	80 028,326	18 081,525

# The Women's Medical Service for India.

This Bervice which was recently insugurated are deputed After this period of probation index the supplies of the late Lady Harhas been satisfatorily passed their appointment. It is included in the National Assomation for supplying fermion medical aid to be woman of hodis generally known at Known at the Chambers of the Dufferin's Funds and is adminisfatorily passed that the chamber of the Dufferin's Funds and is adminisfatorily passed that the chamber of the Dufferin's Funds and is adminisfatorily passed that the chamber of the page of the latest that the chamber of the page of the latest that the latest this period of probation and the latest this period of probation and the latest latest this period of probation that the latest lates tered by the Central Committee of that Fund sum of £10 000 per annun towards its main tenance The present sanctioned cadre is twenty five first class medical women of which humber five is for the purpose of forming a leave reserve. Recruitment of the service is SALAS LESSEA made (a) in India by a medical sub-committee of the Central Committee which includes the Director General, Indian Medical Service the Honorary Secretary to the Central Committee by a sub-committee consisting of a medical man and two medical women conversant with conditions in India, to be nominated by the Home Committee of the Countess of Dufferin a Fund. These sub-committees perform the deties of a medical board examining candidates for physical fitness, and for return to duty after invaliding

The Central Committee determines what proportions of the members of the Service is to be recruited in England and in India respectively in the original constitution of the Service, duly qualitied medical women who are service of, or who have randered approved service to the Counters of Dufferin's Fund, are to have the first claim to appointment and thereafter special consideration is to be paid to the claims of candidates who have qualified in local institutions and of those who are natives of India.

Our Mice tions. -- The qualifications the candidate must be (a) a British set resident in the United Kingdom or in a British Colony or in British India, or a person resident in any territory of any Native Prince or Colof under the successivity of His Majesty or Units under the suserappy of his Mayesty extremed through the Governor-General of India or through any Governor or other conficer subordinate to the Governor General of India. (b) Must be between the ages of twenty-four and thirty at entry (c) She must be a track-class Modical Woman is she must be a track-class Modical Woman is she must be a tracked and the subordinate of the United Kingdom under the Modical Act, we would not consider a substitution of the confidence of the substitution of the subs or an indian or Colonial qualification other than I.M.&B or Licentiate of a Medical College in India registerable in the United Kingdom under that Act but this condition does not apply at the original constitution of the Service apply at the original constitution of the Service to medical women in charge of hospitals who is the opinion of the Central Committee are of proved experience and ability (d) The can distant must produce a certificate of health and character. But the Central Committee reserves the power to promote to the service index not possessing the above qualifications for the power to promote to the service index not possessing the above qualifications. but who have shown marked capacity Mem ters at the Service are required to engage for duty anywhere in India or Burma. Those recruited in Hagiand serve for six months, and those recruited in India for three months, in a resign (except on account of ill health) before Beneral Hospital of the Province to which they completing five years service or in the event

Pay — The rates of pay are as follows —
During probation Bs 350 per month therearier Hs 400 up to the end of the 4th year
Rs. 450 from the 5th to the 7th year Rs 500
from the 5th to the 10th year and Rs. 556
after the 10th year But no member can be
confirmed in the 400 rupes grade toless the has passed an examination in such vernacular as the Provincial Committee shall prescribe, within one year of her appointment. In addition suitable quarters are provided free of rent of a house rent allowance to be determined by the Provincial Committee may be granted in Han of it

Members of the Service are permitted to engage in private practice provided it does not interfere with their official duties and the Provincial Committee has the power to deter mine whether such duties are thus interfered with Except in very special cases retrement is compulsory at the age of forty-eight. member whose appointment is not confirmed or who is dismissed, is granted an allowance sufficient to pay her passage to England

Leave Rules.—(a) Casual Leave, which is occasional leave on full pay for a few days and is not supposed to interrupt duty (b) Privilege Leave, which is leave on full pay and is meant to provide a month's holiday in the year II it cannot be granted during the year it can be accumulated up to a limit of three months (c) Furlough at the rate of two months for each year of duty the latter in cluding privilege leave and casual leave First cinding privilege leave and casual leave. First furlough is not granted till after four years of duty and more than eight months furlough is not granted at one time. Study leave may also be granted not exceeding three months at a time and up to nue months during the whole service. (d) Sick leave, up to a maximum of two years. (e) Extraordinary leave at any time at the discretion of the Central Committee. When on furlough or sick leave the allowance. When on furlough or sick leave the allowanees are half the average monthly pay of the six months presence on duty immediately preced-ing the taking of the leave. There are no allowances during extraordinary leave A Lady appointed in England receives a sum of £70 to cover her passage and incidental expenses There are also allowances to cover the cost of journeys by rail and road

There is also to be a Provident Fund, each member contributing mouthly thereto five per cent of her salary the Association contributing an equal amount and each subscriber's account being granted interest on the amount standing to credit at the rate of 4 per cent. per sunum, or at such rate as the Central Committee can invest without risk to the funds of the Association

The Mamber loses her contributions if she

the actions do not appear to have taken into consideration the great increase m the cost of living which of late years has present heavily on Europeans in India with limited salaries. The initial salary is inadequate for English. The initial salary is inacequate for English two years, the women only a ladies in India, and those who enter the service eight months. It is also to be note without private means may find themselves is only a lump-sum on retirement anable to resign the service should they find the shape of a pension. It is also to to save sufficient to pay the expensive journey to the india, whether man or woman by the to Europe the cost of which (second) precances and often unobtamble

of dismessal. On retrement after approved class is equivalent to a little more than a service the sum which has accommisted to the members taking the factough DEFINITE IN THE SCHEME.—The above are the finiture of the regulations as last published. It is probable that they will have to be altered in unfavourably with those granted to Englishwomen. The turbong rules compare datains as the authorities who have drawn up in the corresponding Indian Medical Bervice, the scheme do not appear to have taken into who are entitled to calculate one-fourth of their active service for furlough, whereas the women are only to be granted one-sixth. Morp over the men can accumulate furlough up to over one men can accumulate unnught up to two years, the women only accumulating eight months. It is also to be noted that there is only a lump-sum on retirement, nothing in the shape of a pension. It is also to be pointed out that private practice for the English doeter in India, whether man or woman, is always

### THE COUNTESS OF DUFFERIN'S FUND

The National Association for supplying female medical aid to the women of India at once one of the most efficient as it is among the most useful and benevolent lostitutions in India is the out come of the work of the Countess of Dufferin and Awa during the time of her husbands vice royalty. The late Queen Victoria drew the attention of the Counters on the departum of the latter for India, to the question of supplying medical aid to women in this country. and asked her to take a practical interest in the subject. As the result of her enquiries she found that, though certain great efforts were being made in a few places to provide female attendance in hospitals, training achools remais attendante in nospitals, training schools and dispensaries for women and although missionary effort had done much, and had indeed for many years been sending out pioneers into the field, yet taking indica as a whole the women owing to the purplish system, were midoubtedly without that medical aid which European women were accustomed to counider as sholutely presenty In the Countess own words written in 1886 after the movement had been started I found that movement had been started 1 found that even in cases where nature it left to herself would be the best doctor the ignorant practice of the so-called mutwife led to infinite his chief which might often be characterised as abominably oruel It seemed to mo then that it only the people of India could be made to realise that their women have to bear more than their necessary share of human suffering and that it reets with the men of this country and with the women of other nationalities to relieve them of that unnecessary burden then surely the men would put their shoulders to the wheel and would determine that wives, mothers and sisters and daughters dependent upon them should, in times of sickness and pain, have every relief that human skill and tender nursing could afford them. I thought that if an association could be formed

which should set before itself this one single object, to bring medical knowledge and medical relief to the women of India, and which should carefully avoid compromising the simplicity of its aim by keeping clear of all controversal and by which as africity unectarian spirit, then it hight become naturnal and

ought to command the support and sympathy of every one in the country who has women dependent upon him

Initiation of the Scheme—Lady Dufferms a plane were warmly received by the public all over India. The scheme was drawn out and published in the different dialects. The sasconation was named. The National Association for Supplying Female Medical Aid to the Women of India. and the money for Masupport, as it was received, was credited to the Countess of Dufferin's Fund. The affairs of the Association were manuscular. of the Association were managed by a central committee of which the Counters of Dufferin during her stay in India was President Branch Associations each independent for insactial and administrative purposes but linked with the central committee were formed in most parts of the country and the work may be said to have started from angust 1885. The objects of the country and the work may be said to have started from August 1885. The objects of the Association are thus set-forth in the publications—I Medical tuition including the teaching and training in India of women as doctors, hospital seastants nurses, and mid wives. If Medical relief, including the establishing under femals superint indexes of dispensaries and hospitals for the treatment of rouner and children. pensaries and hospitals for the treatment of women and children the opening of female wards under women superintendents in the existing hospitals and dispensaries the pro-vision of female medical officers and atten-dants for cristing female wards and the founding of hospitals for women where specially funds or endowments are forthcoming III The supply of trained temale nurses and midwives for women and nurses for children in hospitals and private houses

Within four years from its inception there Within four years from its inception there were in enterone weeve hospitals for women and fifteen dispensaries most of which were officered by women, and all more or less closely connected with the association from the subscriptions collected there was enough to set aside a substantial sum as me endowment fund and also six medical twelve nursing, and two hospital assistant scholarships had been provided for

Growth of Scheme.-The first regular train

the Bombay Branch of the Association is con Battley with the Cama Respiration Bombay This is a civil matitution under Government management, and is solely for women and lake of ropess disting of all castes and denominations. In Annual Rep-connection therewith is the Albiess Obstetucial ciation is pub-Hospital and the Jaffer Suiriman dispensary

ing achool in lades for the instruction of There were one hundred and fifty-click hospi native pupils in medical and surgical nursing, tale, wards, or disponenties of various lated and in individual was established in 1886 by for the medical relief of close on one and a quarter million women and children, and the of the Association was estimated at over 56

Annual Report — The Report of the Amo custon is published annual;, and can be obtained either from the Superinter dent of recognish and the samer subtiman dispenser; between the substitute distribution and colliders. The present physical standard and standard and some manner or smilested to the provincial Branches working under the central committee and stacked in some manner or smilested to the provincial branches, the uniformly scattered over the indian Pennsula, were about one hundred and forty Local and District Associations or Committees engaged in Lt.-Col. Str. James. Boberts, i.m.s. Surgeon in furthering the work of the Association

#### NURSING

Whist India cannot show the complete chain of efficiently nursed hospitals which axists in England their has been a great de velopment of skilled nursing of recent years recopients of sames nursing of recent years. This activity is principally centred in the Bengal, Madras, and Hombay Presidencies where the chief hospitals in the Presidency towns are well nursed, and where large private staffs are maintained, available to the general middle of the providence of the providence of the staffs are maintained, available to the general middle of the providence staffs are maintained, available to the general public on payment of a presenbed scale of fees. These bospitals also act as training institutions, and turn out a yearly supply of fully trained norwes both to meet their own demands and those of outside institutions and private agencies. In this way the supply of trained nurses, English Anglo Indian and Indian is being steadily increased. In Rombas the convention of the conv Indian is being steadily increased. In Hombar the organisation has gone a step farther through the establishment of the Bombay Presidence Nursing Association (c) % the organ Hospital Bombay. This is composed of representatives of the various Nursing Associations in charge of individual hospitals and works under the Government. The principle on which the relations of this Association with the Local Association with the Local Association is governed as that there shall be central examinations as is that there shall be central examination and control combined with complete individual

coninol combined with complete individual autonomy in admin stratter

Nursing Bodies — The Honorary Secretary of the Calcutta Nursing Association is Mr R A B Reynolds, the Presidency General Hospital The address of the Mayo Hospital Nursing Association is In Strand Road In Madera, there is the General Rospital with a staff of 62 nurses, the Government Maternity Hospital the Caste and Gotha Hospital at Ellpank, the Royappeta Hospital and the

Ultimately the Government laid down a definite principle with regard to the financial ald which they would give to such institutions agreeing to contribute a sum equal to that the work grew it was decided by Government that each number association attached to a lospital should have a definite constitution and consequently these bodies have all been remetered as Associations under Act 21 of 1860 By degrees substantial endowments have been built up atthough the 4 wociations are still largely dependent upon annual subscriptions towards the maintenance of their work chief of these Associations are —

St George's Hospital Nursing Association Recretary D W Wilson, Pt George's Recretary D W Hospital Bombay

J Hospital Nursing Association Secretary A G Gray Jamsetji Jijibhai Hespital Bombay

Gokaldas Tejpal Hospital Nursing Asso-mation Secretary Rahimtullah Currim

Cama Hospital Nursing Association Address-Cama Hospital Bombay

Sassoon Hospital Nursing Association Address—Sassoon Hospital Poons Ahmedabad and Lel Memorial Association Address—Uvil Surgeon Ahmedahad

After further experience it was felt that it is undestrable to have a considerable number of detached and independent nursing associations training and certifying nurses without any common standard of entrance examination or staff of 62 nurses, the Government Maternity
Hospital the Caste and Goahs Hospital as the Hospital the Caste and Goahs Hospital as the Hospital Rospital Rospital Rospital Burbay Presidency —The Bombay Presi The principle on which the Bombey Presiden by Norsing Association works is a central system of evami atten or rification right at no and control. It show the only nursing, examining, sightering and certifying body in the Bombay fresidency at the same time the local associations retain entire charge of their local funds excepting Provident funds which have been transcerred to the Central mad and also entire control of the nurses when they are in their employment. In a sentence, the principle is central examination and certification and local control. By degrees it is hoped to be able to establish the principle that none but nurses registered under or certified by this association shall be employed in any Government hastutition.

The Association commenced its operations on the 1st April 1911 The institutions recognized under the by laws for the training of nurve at present are—St decrees Hospital J J Hospital Cama and Alblew Hospitals in Bombay the Civil Hospital Karachi, the H and P Civil Hospital Karachi, the H and P Civil Hospital Ahm dabad and the Seasoon Hospital in Poona, and the following for the training of midwives —The Cama and Alblew Hos take St Gropp is Hospital and the Ban Mothbal Hospital in Bombay and the Barsoon Hospital in Poona

Provision for retiring allowances is made for all members on the basis of a Provident und and a Nursing Reserve has been established for employment in emergencies such as war pestiknee or public danger or calamity.

Address—The Secretary Pombay Presidency Kursing Association c/o Greates Cotton ( to Bombay

Lady Minto Nursing Sarvice — In 1905 there was one organ atton existing in the Pin jab and the United Provinces called the Up-Country Norsing Association for Europeans in India which was established in 1892 This Association carried out very useful work in ceitain parts of India, but was hampered by want of funds. For this reason it was found in possible to extend their organization and the urgent need for a larger number of trained humes at charges mumber of trained humes at charges within the reach of all classes was much required. The late Lady Curzon worked energetically to provide an enlarged nursing organization but principally for financial reasons was mable before leaving India to bring her scheme to frui ion. The Home Committee of the existing Association 1805 and begged her assistance and co-operation. After much consideration and discussion with the Govern ment of India, Lieutenant Governows and Com-

missioners of Provinces, the present Association was established. In 1906 an appeal was made by Lasy Minto to the public bottl in England and India to start an endowment fund Tais appeal was most generously responded to Each year the endowment fund bas gradually increased and with the assistance of a Government grant homes for nurses have been established to seven Provinces of India and Burma, of which the original Association formed the nucleus To avoid confusion with other Associations the enlarged organisation by request of the Home Committee was named "Lady Minto's Delian Nursing Association carrying on the same work as before namely that of selecting suntably trained nurses in England, and making the necessary arrangements for their transfer to India Hom. Severetary Lieut-Gol Sir J.R. Hoberts, O.I.E. IME Similar Hom. Severetary Lieut-Gol Sir J.R. Hoberts, O.I.E. IME Similar Golden Crooke-Lawless Kill-rone Cloyne Co. ork.

Nurses Organizations—The Trained Nurses Association of Nurses association of India and the Association of Nursing Superint idents of India are not Associations to employ or to supply nurses but are organizations with a membership wholly of nurses with the avowed objects of improving and untifying nursing education promoting epiral de corps among nurses, and upholding the dignity and honour of the nursing profession. The Associations have a membership of 202, including nurses train d in ten or more different countries, huropeans Americans, New Zeal anders, Australians and Indiana The Association of Superinkendents was started in 1905 as the Association of Nursing Superintendents for the United Provinces and the Punjab but have the country to such an extent that the name was clenged to include the whole of the United Provinces and the Punjab but have the country to such an extent that the name was clenged to include the whole of the United Provinces and the Punjab but have the country to such an extent that the name was clenged to include the whole of the The Trained Nurses Association was started in 1905 and a monthly Journal of Nursing began to be published by the two Associations in February 1910. The Associations have siture become affidiated with the International Conurse of Nurses and the province of the province of the province of the Punjab but the International Conurse of the Associations and the province of the Punjab but the International Conurse of the Punjab but the International Conurse of the Associations and the Punjab but the International Conurse of the Associations and the Punjab but the International Conurse of the Associations and the Punjab but the International Conurse of the Associations and the Punjab but the International Conurse of the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the Punjab but the

Below are given names of Officers of the

Trained Yures 1s oc at on of Ind a.

President Miss Lattlett Parses General Respital. Fon bay Hon Servicing and Treasurer
Miss Thacker toma Hospital Bombay

Association of Arrang Superintendents

President Miss Dint Madrae Hon Servetary and Transparer Miss Hawki a Mession Hospital Palwal

# Indians Abroad

The Indian is naturally averse from emigra | according to the rites of a religion permitting too beyond the seas. Nevertheless there are | polygamous marriages could not be admitted. some hundreds of thousands of Indians resident in other lands as labourers shopkeepers or professional men Their total number relatively to the population of the Indian Empire la very small being something under two million In itself however, it is considerable and it acquires an extrinsic importance from the social and political issues involved in the settlement of Indians, either as indentured labourers in Crown Colonies, or as free residents in self. governing countries

The right to migrate—From the Imperial standpoint the case of Indian migration to the self-governing Colonies is much the more important During the last two years more important During the last two years the problems artsing therefrom became scute There were two centres of difficulty—bouth Arica and Britash Columbia In each country the attuation involved particular local problems of extreme difficulty But before passing to a discussion of them it is necessary to refer to the larger question of the right of migration within the Empire The intense feeling aroused in India by the disabilities suffered by Indians in the two countries somed was primarily due to the belief that indians were being denied the common rights of British citizenship Without attempting to define the term British cirisenship which is not so easily susceptible of definition as may be imagined, it must suffice to observe that unrestricted migration within the Empire does not appear to be the common right of His Majesty's subjects. The laws of the Dominion of Canada and the Commonwealth rest common of canada and the commonwealth of Amstalla confer powers of exclusion of would-be lumingrants halling from any part of the Empire These laws have been enforced against Englishmen on various grounds. The ground of exclusion is usually economic, and it is on that ground that the Colonial objection to unrestricted immigration from India operates It is unfortunately inevitable that the problem assumes in the popular mind a racial com-plexion. But in actual experience it is the clash of economic interests and the possible political difficulties involved in the settlement of Indians in large numbers in the self governing Colonies which the statesmen of the Empire have to take into account.

In South Africa the trouble gathered round the disabilities of Indians already settled round the disabilities of indigens around receases there. The question of immigration restrictions, though important held a less prominent place in the significant rine most acute point of the controversy was the annual £3 head tax in Katal Restrictions on the migration of Indians from one State of the Union to another was another sore point. The requirement to take out trading licenses was also felt to be a revertious and inviduous distinction between remarkous and invideous distinction between Indian and European traders. While the controversy was at its height, an Art was passed in the Union Parliament restricting entry into South Africa to the wife or child of a lawful immigrant or resident who was the wife or child of a monogamous marriage. In a case brought before the courts it was decided a case brought before the courts it was decided Japanese is limited to a few hundreds annually that the only wife of a marriage soleronised Chinese intragrants pay a head tax of 500

polygamous marriages could not be admitted. The leaders of the agitation in South Africa adopted passive resistance tactics which brought large bodies of Indian workman in Natal into conflict with the police. The situa tion became scotte, and a strong demand grove in India for the appointment of a Government Commission to enquire into the whole question.

The Union Government appointed a Commission, and invited the Government of India to sion, and invited the Government of India to send a representative. Sir Benjamin Robortson, Chief Commissioner of the Central Provinces was selected The Commission reported on the whole invourably to the Indians It re-commended the repeal of the £8 head tax and the removal of restrictions on migration within the Union

In British Columbia the trouble over Indian immigration came to a head in the early Indian immigration came to a head in the early part of this year when a ship-load of Indians was despatched direct from the flar East to Vancouver It was held up in the harbour there for several weeks. The passengers were not allowed to land. An appeal to the Canadian courte resulted in the rejection of their claim, and eventually they were shipped back to India. The arrival of the Komagata Marn in Calentta on September 26 1914, was the receiver of a most layeratable incident. occasion of a most lamentable incident. Auticipating an attempt to organise a political demonstration, the authorities provided special trains to convey the returned immigrants to trains to convey the returned immigrants to their homes in the Punjab and had take power under Ordinance V of 1914 to require them to do so some sixty men immediately proceeded to their homes, but the balance under the leader Gurdit Singh, endeswoured to frome their way to Calcutta. They were turned back by the Milltary and whilst arrangements were being made for a second special train opened fire on the Police and Officials. The Milltary althermed the immigrants by fire and opened fire on the Police and Officials. The Military dispersed the immigrants by fire, and the majority were afterwards arrested Fergt Rastwood Calcutta Police, and Mr Lomax of the R B 8 Railway were killed the Punjah Police had one killed and six injured sixteen rotten were killed, as well as two onlookers The Government of India appointed a commission under the Presidency of Str William Vincent to investigate the matter and it took evidence in Calcutta and the Punjab

There are some 4 000 Indians already settled in British Columbia, chiefly Sikhe They work as agricultural labourers in factories and lumber yards, and also on the railways. The desire amongst them to bring their wives and families out from India points to the fact that they are fairly prosperous and find the con ditions of life in the Colony agreeable. The attitude of the Colomal anti-oritics towards them is governed by the general objection to Asiatic immigration. It is felt that the unrestricted entry of Asiatics would threaten the existence of British Columbia as a "White man a country The immigration of Japa ness and Chinese is regulated by special trea ties with their Governments. The number of deliars on easity. In a speech before the Indian Legislative Council in August of this year H.E. the Yoercy foreshadowed a policy of negotiation with the British Columbia authorities with a view to an arrangement on similar line; to that existing with Japan

An exaggerated danger—Making every allowance for the Colonial standpoint those acquainted with the internal condition of India cannot but feel that the fears that the site governing colonies may be deluxed by Indian immigration are greatly exeggrated The total number of Indians resident out of Indian are to be found in tropical countries feylon slone has 900 000 of them. There is a quarter alone has 900 000 of them. There is a quarter of a million in Mauritaus about another quarter of a million in British Guiana and the West Indies, and 220 000 in the Straits Settlements and Malay States of the self governing Colonies South Africa has by far the largest share, her Indian population being a little under 160,000. Natal alone accounting for 183,000 But this is not the result of ordinary injuration. The nucleus of the South African Indian community was formed artificially by Natal herself Until 1911 when it was stopped by the Government of India there was for many years a steady st.eam of indentured immi gration into Natal to supply labour to the sugar and other industries of that colony The natural increase of the Indian population in South Africa is now much larger than the increase by immigration. In the whole Australian Commonwealth there are not more trailin Commonwealth there are not more than 7000 Indians. The Dominion of Canada has 4500 in all. The significance of these triffing totals must be viewed in the light of the conditions prevailing in India. Here it is true, there is a vast population. Were these 300 millions subjected to the economic conditions of Europe, and were they imbured by the adventurous and ambithous spirit of Europeans, there would be good ground for slarm in the Colonies at the possibility of an overwhelming indiux of Indians. But those are precisely disconditions that do not obtain in the Indian Empire. The demand for labour in India is always greatly in excess of the supply. The always greatly in excess of the supply The ten-planters of Assam are obliged to compete with the Crown Colonies in an elaborate system with the Crown Colonies in an elsborate system of cooly recruitment Labour-hortage is a chronic difficulty with the cotion mults of Bombey As industrial expansion proceeds and agricultural methods improve, as more land is brought under cultivation there must be a diminishing likelihood of emigration from India on any large scale. Add to this the inherent reluctance of the Indian to go far from home, and it will be apparent that the changer of white men a courtries "being swamped by Indian immigrants is at the least temote It is never likely to assume such proportions as would pass the wit of statesmen to control

indentured Emigration—The institution of indentured labour in the tropical colonies of the Empire is one of long standing. As far back as 1864 indentured emigration from India to the British West Indies was in progress under fovernment control. In the case of several of the tropical colonies there has been no interruption since then in the steady inflow of several thousands of Indian ishources annually in

Mauritius, the Straits Settlements, the Federated Malay States and Natal the system for various reasons has come to an end but in all those countries there is now a large population of Indiana, permanent or temporary engaged as free labourers or in independent positions. The principal colonies in which indentured emigration still provale are British Gulana, Trinidad and Fill. Even here however there has been a progressive decline during recent years, owing in part to the increased difficulty of recruiting in India. This difficulty arises entirely from the growing demand for labour within the Indian Empire, consequent upon industrial expansion.

The indentured system has been the subject of much controversy. It is distinct in India and by some people in Figland because it seems to present features analogous to slavery—in that for the term of his indenture the labourer is not a tree agent he is ad services globar and bound to serve the employer to whom he is assigned on terms which are absorbed lutely fixed. In the colonies themselves the system is unpopular on two grounds—(1) it tends to depress the current rate of wages. (2) only a minority of the time-expired coolies become permanent settlers, the majority claiming their return passage and taking money out of the colony in the form of savings. the point of view of the labourer himself, the indentured system, if it has any true resemblance to slavery is a kind of bondage that is easily supportable. He is supplied with a free dwelling under highly sanitary conditions, his wages are fixed on the hasis of the rate prevailing in the open market no deductions are to be made therefrom for rent, hospital accommodation, medical attendance or medicine. which the estate proprietors are bound to provide Free schooling is available for his children, and if, at the end of his indenture, he elects to remain in the Colony he is given a free grant of Government land These are the conditions prevailing in British Guisna, but, with the exception of the grant of sand, they are similar exception of the grant or land, they are similar to those in other colonies where indentured immigration is in force. The permanent Indian population in British Guiana is 127 000° in Tri nidad 113 000° in Fiji 40 000° in Mauritius 288,000° and 113,000° in Natial Other colonies, such as Jamaica and Dutch Guiana (Surinani) have small communities, amounting in such to a true thousand only on time-extend such to a few thousand only or time-expired Indian coolies Ceylon, the Straits Settlements and the Federated Malay States continue to attract Indian labourers, chiefy from Southern India, although no indenture system now exists in those countries

The Becruitment of indentured cooles in India is carried on by agents employed by the colonies Each colony or group of colonies, maintains an Emigration Agent in India at a fixed sulary These Agents are officially recognized by the Georarment of India They have a staff of sub-agent; under whom a number of recruitment are constanting at work. The most active recruitment are constanting at work. The most active recruitment and the original properties of the United Provinces and the more thickly populated parts of Madras Presidency Rach recruiter is Hoenson by the Provincial Government in India. The Heenson are renewable annually and they must be

connecting of by the Magistrate of the District ( in which the license operates. The Magletrate's countersignature may be cancelled at any time for a breach of the recruiting regulations. The sub-agent receives from the colony emane sun-agent receives from the colony employing him Rs. 25 for every man and Rs. 25 for every moman engaged. From this sum the sun-agent has to pay the recruiter himself. The recruits are first drafted to a sun-depot in their own part of the country. They are conveyed thence, to the main depot at the port of embarkation. These depots are under the control of the Protector of Embarants. whose duty it is to ascertain whether the coolies are willing to emigrate and understand the nature of the contract into which they have entered. He is required to agrist and advise them to the best of his powers. He must also inspect the ships chartered for the conveyance of the cooles to their destination and to see that the regulations governing the secommodation on board are duly compiled with. Each emigrant undergoes a medical examination before embarking On arrival at the port of detination the emigrants are met by an official of the colony who is atyled the Immigration agent General His are mot by an omeia of the cotony was a styled the Immigration Agent General His duties are similar to those of the Protector of Emigrants in India with the Important addition of supervising the conditions of labour on the plantations. The Government of India on the plantations. The Government of India may problem emigration to any colony in which the rate of mortality amongst the in dentured coolies is unduly high, or where proper measures for their protection have been neglected, or the agreements made with the cooles have not been fulfilled. Indentured emigration to Natal has been stopped by the Government of India in consequence of complaints received from that country as to the treatment of the

Calcutts.—There were five emigration agen closs as work as Calcutts, but at the emi of 1913 the emigration agentles at Calcutts for Trinided Fiji Jamaica and Wauri us were agastysmaced with that for British Gulana analyzamated with the jor British Guiana.
At the same time a cintral agency was established at Benares. The to all number of labourers regulationed fell from 0447 in 1912 to 5167 in 1913. The rotal number of smilgrants registered during the year was emigrants registered during the year was 9171 gd ing an average of 10 emigran sper recruiter as against 11 in the preceding year. This number was contributed by the different provinces in the following reportations — United Provinces, 78 68 per cent — Punjab 10 2 per cent — Benval, 7 37 per cent — Ethar and Orless 7,16 per cent Ajmers and the Contral Pro vinces, 1 8 per cent

The number of emigrants who returned from the several colonics was 3 551 and their accretained agg erate asylogs amounted to about £42 900. The average savings per head

were about £24 for Fig. £10 for Densersa Jamaica, and Surinam, £9 for Natal and Total dad and 28 6d for Mauritius Over 60 per brought back no say nes

There was a slight iner ase in the average amount remit ted by nestdent immirrants in respect of the colonies of British Gulana, Tri nided Mauri ius and Vatal and a decrease in respect of Surinam and Jamaica the average was again highest in the case of Natal (1°s) the average

was again injured in in-last of rata (1.8) to this probably includes semilitance from trad its etc. as well as labourers.

Madras.—The total number of emigrants and rate Emigration Act regulations was 2,266 se against 2.5 6 in 1912. Emigration in 912 was so ely confined to full and British Cultans. 1 192-migrands returned 3 cm hatal. 2 6 from Mauri ius and 125 from Fift

As regards n n regulated emimation number of passengers to the Straits Settlements ruse tom 10" 342 to 117 :83 the High wag s offered on the ruther plantations bing doubless the thiol attraction. Passages to to lon rose from 183 :102 to 100 059 Emigration to Burma increased

Bombay - The number of emigrants shipped from the port of Bombay under the Indian Emigration Act rose from 2 0 to 258 Of these 1/1 were bound for British East Africa and 7" we e workers for the Anglo Pusian Oil Company at Mahommerah From Karachi 334 emitrants (most v Punjabls) left for Ugania and 103 for the Petalan (till A number of other emicrarts left the cost districts for 50 th Africa. The Surat District alone report ed 1079, uo'n districts the voyagers block for the most part the wives and children of estabit but emigrapha

Statement showing approximately the number of British Indian subjects in the various colonies -

Tripklad	117100
British tulona	120 (89
Jamai: e	20 000
Fill	44 220
9urinam	26 91 9
Reunion	3 012
Mauritius	2.7 697
Federated Malay States	210 000
Straits Settlements	Figures pet avail
	able
Cape Courty	6 606
Natal	183 031
Transvasi	10 048
Orange Free State	106
Southern Rhodesia	Figures not avail
	a ble
Australia	Do
New Cealand	Do
Lungda	2 500 or 4,500 (the
	num ber is un

# INDENTURED LABOUR AND INDIAN OPINION

India appointed a Commission of two Mr J shie to promote their wells are The main McHell and Mr Chiman Lal, to report upon points to which they were to direct attention to enditions of life of the Indian immigrants were the housing of the labourers and the in the Colombe. The Commissioners were also desired to submit two commenciations as to an adopted of medical arrangements whether

About the end of 1912, the Government of | arrangements which may be considered desir

certain).

tasks are moderate, hours of work suitable and wages adoquate whether the administration of justice is fairly conducted and whether isbources meet with any difficulties in prosecuting employers or defending themselves whether the penalties imposed by the labour laws are in any case acrossive or unsuitable whether the isbourers are subjected to undue restrictions, outside working hours, and whether they enjoy sufficient facilities for proceeding to the Protector of Immigrants or to the Magnistrate to lodge complaints the relations generally between employers and labourers whether facilities are emforded to Indian labourers whether facilities are promptly made and whether immigrants experience any difficulty in obtaining repatration. They were desired to report specially in respect of certain features of the system linese were connected with any excessive number of prosecutions of labourers by employers the position of the Protecto of Immigrants the terms of agreement which the emigrant is required to sign the position of irrecludians female rodent rea and suicides and immorality on the estates

Merits of the system —The Commissioners were engaged in their investigation for about 11 months. They visited Trinidad British Gulans Jamaics and Fiji and also the Dutch (olony of Surinam which is permitted to recruit labourers under contract of indenture in India Thoir report is in two parts Translad and British Gulana taking up the first, and the rest the second part. After a detailed exposition or the state of things in respect of the points mention ed above in each of the colonies visited by them the Commissioners observe We are convinced that notwithstanding our possibly disproportion ate presentation of the unsatisfactory leatures of the exacing system a careful study of the facts elicited during our injury will result in the conclusion that its advantages have far outweighed its disadvantages. The great outweighted its disadvantages the great majority of emigrants exchanged grinding po-verty with practically no hope of betterment for a condition verying from simple but secure comfort to solid prosperity Emigrants live under very much better conditions than their relatives in India and have had opportunities of prospering which exceeded their own wildest hopes. They became citizens of the colonies to which they emigrated and both they and their descendants have attained to pountions commanding general respect and consideration regards the moral condition of the immigrants the Commissioners observe There is no doubt that the morality of an estate population compares very unfavourably with that of an Indian village and that the trouble originates in the class of women who emigrate the rates of suicide among the indentured labourers are The rates high as compared with those among free Indians in the colonies and much higher than those among the population in the provinces of India. In Trinidad the mitcher are for the otsal Indian population was 184 per million and for the

indentured 400 per million. The suicide rates among Indians in the other colonies were. British Guisaa, unindembured, 52 per million, Indentured 100 per million, Jamaica 398 per million, solicides amongst the unindentured not being separately recorded, Dutch Guisaa unindentured 43 Indentured 91, Fiji, unindentured, 147 per million, Indentured 928 per million. According to a statement prepared by the repartment of Commerce and Industry of the Government of Commerce and Industry of the Government of India, the average suicide ratea for India are the Bombay Prefidency 28 8 per million the United Provinces whence most enigrants are drawn, 63 per million and Madras the other source of supply to Fiji 45 per million.

Indian Feeling.—For some years past, there has been a growing feeling amongst Indian leaders that the indentitived system of labour was inconsistent with national self-respect and should be stopped. This feeling originated in the belief that the treatment accorded to lording in the self-governing colonies uspecially in South Airca was due to the Colonials coming to think poorly of Indians as a race b cause of the class represented by indentured labourers. In 1210—the Government of India accepted a resolution moved by the late Mr Gokhale putting an end to the indentured system so far as Natal was concurned. In 1s12, however, they opposed his resolution to abolish the system altogether Opinion in India has been meeting tast aguinst the system, and it is rel forced by the rapid industrial development of the country making largely increasing demands on the labour market depleted to some extent by the rave, es of plague during the last twenty years The startling figures of suicide and the admis-In starting figures of sucide and the adults sions as regards the pievaline of gross imporably among estate populations have roused public feeling in the country and this habet a feeling in the country and this cated sto us of young caste women of respectables. cated sto its of young caste women of respectability having been decoyed by dishonast retruiting agents to the emigration tepots Mr. 1. An rews, lat of St. St. hens. College, Delhi and now connected with the school conducted on his own on simal lines by Sir Rabindranath Tayore—the local laureate of Asia as the Vicerov apily called him—at Boljum in the Beneal Presidency has teen deputed by the Indian Cliftenship Association. deputed by the Indian Citizenship Association of Bombay to visit Fijl and to investigate the on 1 ions which make for the fright(1) ratio of sicide reverted in that rolony He is at omy anied by Mr W Pearson who is also asso iated with the Polphy Behool Messars and Pearson, it may be mentione is sived South Arics when the Passive Resistance stringle lei by Mr (andhi was at its fiel ht and rendered valuable service in bringing about the settlement that was eventually arrived at They have visited Australian on their way to fijl and have it is under stool enlisted the sympathy of eading Australian statemen on behalf of their mission mission

# Indians in Great Britain.

Cines on sixty years have gone by since the Paris community, in the persons of Mr Dada shah Macroil and other members of the firm of Cama and Co led the way in the residence of Indians in England for business purposes. or indians in England for Statistics purposes.
This lead it has since maintained though there are both Hindu and Mahommedan business then firmly established there. Nor are the professions unrepresented for there are in London practising barristens and solicitors of Indian burth. Two Indians are on the Secretary of State a Council, and at least one successful in the Civil Service examination elected successful in the civil service examination of etc. to work in England instead of returning to his native land. The early years of the present contary have seen the gathering of a new Indian sement in permanent residence—that of retired officials (particularly of the I M. S) and business men or people of independent means who from preference or in order to have their children educated in England leeve the land of their birth and seldom if ever visit it again Further the (temperarily greatly diminished by the war) stream of Indian summer visitors includes wealthy people who return as regularly as the swallows in spring, and some regularly as the swallows in spring, and some of them spend as much time in England or on the Continent as in their native land while the men adopt European dress so fully that a turban is a rare sight even at Indian gatherings, the ladies wisely retain their grace-ful Restern habiliments and it is astonishing to note on occasions how large at number of Indian women so attired can be collected together at the Criterion or at 21 Cromwell Boad. In the last fifteen months thousands of our valiant Indian soldiers wounded or invalided from Flanders have gone to England for the first. time in their lives to be nursed back to health in the well equipped and admirably adminis tered Indian htepitals in Hampsbire and at Retubion

#### The Students.

But under normal conditions it is the student community which constitutes the greatly preponderating element and creates an Indian problem. Its numbers have multiplied ten or twelvefold in the last quarter of a century the increase being especially rapid since 1904 or 1905. There was indeed an artificial inflation some five years ago when many youth, some of them Ill prepared) were hurried on to the Inne of Court in order to be entered before more stringent rules for admission from the overes dominions came into force. While this sudden expansion has been worked off to a large ox tent there has been development in other directions, and particularly that of the tech nical and engineering schools and classes Allowing for the very considerable temporary check caused by the European War the agere gate number may be estimated at between 1 300 and 1 400 This total does not include more than a few of the growing number of youths of good family some of them heirs of Native States sometied into our public schools including Eton and Harrow Nor the younger children of resident indians. It does not comprehend Burgase students of whom there are about 80 Nor does it take full account of female students

in schools and colleges. While It is not possible to obtain exact and compete worth his not possing to obtain that the young people from all parts of India of both sexes and all ages under instruc-tion in the British Isles, cannot be in below 2,000

It is, however with the 1 300 or 1 400 young men almost all far removed from parental oversight and control, that the organisation set up by the Secretary of State for India has to deal. Of these on 80th June last 151 were at the Middle Temple, 146 at Lincoln s Inn 66 at Grays Inn and 58 at the Inner Temple. Al together including technical and medical stu-dents, there must be 600 or '00 in London Edinburgh comes next with over 200 Cambridge with 100 Oxford with 60 Glasgow with 70 and Manchester with 80 while there are smaller numbers at Birmingham, Leeds Shemid Dublin and other centres

#### The Bureau.

It is well known that until a few years ago the young Indians, spart from inadequately supported unofficial effort and the chance of roming under the influence of English friends of their families were practically left to their own devices. But in April 1909 Lord Morley, as a result of the investigations of an India Office Committee created for their benefit a Bureau of Information and appointed Mr. T. W. Arnold to the charge of it under the title of Educational Adviser, The Bureau was located in due time at 21 Crouwell Road together with the National Indian Association and the Northbrook Society which were thus given spaceous quarters for their social wolk among the young man without menting what would otherwise have been the prohibition cost of heavy rent Lord Morley also established an Advisory forminities making composed or influential indian residents and in India corot influential Indian residents and in India corresponding provincial and district committees were formed to help and advise intending students. The work of the Bureau rapidly expanded and in consequence Lord Crewa in 1912 re-organised the arrangements under the general charge of a Secretary for Indian Students, Mr. C. E. Mallet. While Mr. Arnold continued to look after the London students and to act as gravitan whom a dealersh at the of influential Indian residents and in India cor and to act as guardian when so desired by the parents, local Advisers were appointed at the provincial universities

Two strange delucions (to some cases they nav be called deliberate misrepresentations) have been propagated in reference to these arrangements. One is that the India Office set up the Bureau in order to track down the wave of seditious sentiment which culminated in the assasination of Sir Curton Wyllie five years ago As a matter of fact the Burean was established three months before the com was established three months before the oun-mission of that crime and was proposed at least a year previously. The object as The Times observed in September 1908 was not to put these young men into political leading strings, nor officially to restrict their liberty It lies in doing all that is possible to facilitate their educational progress and their general welfare and ta bringing them under whole some and helpful influence Mr Arnold accepted his appointment on the distinct

understanding that there would be no sort or kind of esplonage and Mr Mallet told a gather ing of students in 1913 that it was a complete delusion to regard the Bureau as an instrument of explonage. He would never have anything to do with it if that were its character

### Opening Closed Doors.

It is no less of a delusion for the students to hold as some of their elder fellow-country men have encouraged them to do that the Bureau is responsible for restrictive rules and regulations of colleges and other institutions, or at any rate for their continuance in spite of protests. The fact of the matter is that in consequence of the wave of disaffection to which reference has been made as well as of various practical difficulties arising from the growth in numbers of Indian applications for admission many of the universities and other educational institutions had passed other educational institutions had passed treatnetive and in some cases almost prohibitive, regulations affecting Indians when the Burean came into being. The authorities in question are independent of ourside control and of no department in Whitehall are the more so than of the India Office. The Bureau cannot do more than approach them with requests and suggestions for the benefit of Indians, or with undertakings to afford the sponsorably which in many cases is made a condution of admission.

sponsoramp which in many cases is made a condition of admission

So far from blocking the way as he tile observers have alleged the Bureau has been singularly successful in opening closed doors and muligating any real gnevances Mr Mallet has intimated he would welcome the cooperation of any organization for promoting the educational interests of the attdents. But it is easier to make cloquent specifies and passesses the state of the students. resolutions than to study rules and regulations and represent to the authorities with moderation and clearness where they need amendment and

such organizations have so far been infru tuous.
The complaints made by some of the students were investigated in a most sympathetic spirit by an Indian sub-committee of the London Advisory Committee and the report was pub-lighed last summer. With the letter in reply from the Screenay of State in Council (then Lord Crowe) it affords evidence that the work of the department has been carnest and well directed and that to quote the comment of The Trace young Indians can best advance and sustain their claims in relation to educational institutions at Home by co operation with the machinery the Secretary of State has provided rather than by alcomess and hostile criticism of the department. There are no insuperable obstacles of race. Sir T. Morison a Committee on State Technical Scholarships reported in 1913 that the difficulties encountered by young Indians in supplementing academic instruction by technical experience in factories and work shops are general in character being at o ap phosble to their English contemporaries and that there is on the whole very little evidence of a racial prejudice against Indians. And no youth need go to England under any mis And appelenation as to the facilities for his education of the facilities for his education and their limitations. The excellent Hand book of Information for Indean attodents (appelenation for the military authorities paper by the National Indian Association and

the Advisory Committee now in its fitteenth edition (1914) supplies all relevant facts and advice and on personal details the Indian Advisory Committees can be consulted.

# Persuasion not Coercion.

Another mistaken notion held by some Anglo-Indians of the old type is that the Bureau could easily exercise disciplinary control over all young Indians in London. The fact is that except in respect to holders of Govern ment and some hative State Scholarships it has ment and some rather of the control to an of distributary authority save when parents place their sons under guardianality of Mr Arnold or a provincial Adviser and even in these cases the control can only be exerused in connection with the administration of the regular allowances. The Bureau has had a most beneficial influence in saving scores or voting ure from falling into & br intemperance or marital felly, but this has been exercised not overfexly but by fir ndly personal contact and keeping before them the obligation and and Accinic within the property point of view of adhering to the purposes of educational equipment for which they have gone to Ingland. From the first the keynott of the scheme has been that or enabling the steadfast to make use of facilities for their welfare at their own discretion without any apprehension of constraint or coercion theorally it may be said that considering the difficulties of the problem the success attending the arrangements initiated in April 1909 has been considerable and that they have in them the promise of increasing good in the light of accumulated experience

The removal of misunderstanding and pretudice should be materially promoted by changen and teadfast conditions brought about hy li dia a magnificent majon e to the call or Empre in the kuropean War

In this young Indians in England have had their part A few promptly enlisted in Kitchiners Army being readily admitted on gate from the usual phy real test. Many other mappined thereto liv Mr. M. k. Guidhi other inspired thereto its air is a Gudhi who was in England on his way from South Africa to India when the war commenced offered their services unconditionally to the authorates with the result that an Indian lield Ambulance Corps was organised under the command of Colonel B. J. Baker lote LM 8 The total enrolled trength of the Corps was 272 of whom altogether 215 were employed at the various Indian he pitals and depote in Er gland or on the ludian hospital ships Corps would have grown still further had not the War Office stuffed remitment in coase quence of the ample provision made by the thoremment of India in the equipment of the medical and ambulan e side of the Expeditionary Force But in the autumn there were atil pearly 100 members of the Corps serving I wo of them had received permanent, and 88 of them temporary commissions in the I M & Mesnwhile a committee of students pressed the claims of Indians at the Univer sittles and other educational institutions to be admitted to the Officers Training Corps

## Appointments to the Indian Services

Full details of the regulations governing appointments to the Indian Services are published in the India Office List. The more essential particulars except as regards the Civil Service and Police,—of which fuller details are given elsewhere in this book—are given below

### Indian Agricultural Service

The appointments in the Indian Agricultural ( Service include those of Deputy Director of Agriculture Agricultural Chemist Economic Agriculture Agricultural Unemiat Economic Botanist Mycologust Entomologust Professore Botanist aversions intollinous Profession of Agriculture, Chemistry and Botany at Agriculture Colleges and the like Some of these included in the Imperial Department of Agriculture under the direct control of the Government of India, but the majority are included in the Departments of Agriculture of the several provinces of India. In some cases candidates will be appointed direct to these candidates will be appointed direct to these posts, but in most cases they will be appointed as supernumeraries will undergo a further course of training in India in Indian agriculture and will be appointed to posts for which in the opinion of the Government they are con aldered sultable, on the regular establishment addered suitable, on the regular establishment are made by the Secretary of State for India as occasion may require. Candidates must as a rule, be not less than 23 nor more than 30 years of age. In selecting Candidates for appointment weight will be given to the possession of (a) a University desires in honours m science or the diploma of a recognised school of agriculture or other like distinction (b) qualifications in a special release according to the nature of the vacancy to be filled (c) practical experience Importance is also attached to bodily activity and ability to ride and selected Candidates have to undergo an examination by the Medical Roard of the India Office as to their physical fitness for service in India.

The salary attached to poets in the Indian Agricultural Service will ordinarily be —

Ra For the first year 400 per mensem. 430 second year third year 480 fourth and subse-

quent vers

500 rising by annual increments of Ba 50 a month to Ra 1 000 a month

Candidates who are required to undergo a further course of training in India as explained above will be appointed on this seals of salary commencing on a pay of Rs. 400 Whore, for special reasons a Candidate is recruited for direct appointment to one of the regular posts under paragraph 1 his luttial pay will be determined with reference to the special qualifications on the length of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explaining the control of European explained the control of European explain with the determinate with reference to the special qualifications on the length of European ex-perience required for the appointment for which he is specially selected, but his subsequent increments of salary will be regulated by the foregoing scale. In addition to this scale of pay officer filling appointments directly under the Government of India, as distinguished from appointments under Local Governments (but not including officers holding supernamerary posts the post of inspector-General or the post of Director of the Pusa Institute) will be eligible for local allowances conditional on approved good work and the Government reserves to itself the fullest discretion as to granting withholding or withdrawing them

### Indian Civil Veterinary Department

The officers of the Indian Civil Veterinary Department perform or supervise all official veterinary work in India other than that of the Army and are debarred from private professional practice in India Their duties may be divided into three classes, under the follow ing heads -

(a) Educational work in veterinary colleges

(b) Horse and mule breeding

(c) Cattle disease and cattle breeding

possets a diploms from the Royal College of Veterinary Surgeons Ryidence of a know ledge of bacteriology and of capacity for carry ing out original research will be specially taken into account in estimating the claims of candi dates Good health a sound constitution, and active habits are essential and candidates must be certified by the Medical Board of the India Office to be physically fit for service in India.

Pay will be as follows -On arrival in India Appointments to this Department are made. Rt 500 a month rising by its 40 each year to as vacancies over by the Secretary of State. Rs 1100 which rate will continue from the for India Candidates must not (except on beginning of the 18th to the end of the 20th special grounds to be approved by the Secretary year of scribe after the beginning of the 21st of State) he over 20 years of age and must year Rs 1200 a month

### Ecclesiastical Establishments (Church of England)

Appointments of Chaplains on Probation are made from time to time by the Secretary of State for India, as vacancies occur Candi dates for these appointments must be Priests
who are between the ages of twenty-seven and
thirty four years, and have been for three years
attagether in Holy Orders Applications for
normalities should be submitted to the Secre-

tary of State.

A Chaptain will be on probation for three years (s) if confirmed in his appointment at the and of that period, he will be admitted as a Junior Chaptain.

The salaries of Chaplains are

Senior Chaplaine Rs. 10 200 per annum for five years, and then Rs. 12,000 per annum.

Juntor Chaplains Rs 6 360 per annum for five years, and thereafter Rs. 8 160 per annum until promoted to be Senior Chaplains.

Chaplains on Probation, Rs. 5,760 per

annum.

A Junior Chaplain becomes a Senior Chap-lain after ten years service, excluding the period of probation.

The retiring pay of Chaplains is regulated by the following scale	1
Per annum	.   4

fter 23 years service, with an actual residence in India of 20 years including the period of (After 28 years service, probation

### On Medical Certificate.

After 18 years' actual residence n India, including the period of probablon 202 n n After 13 years ditto 178 7 865 0 n After 10 years ditto 127 15 0

### Ecclesiastical Establishments (Church of Scotland)

The appointments of Chaplains of the Church of Scotland on probation are made from time to time by the Secretary of State for India, accord vacancles occur Candidates for these appointments must have been licensed for three years and be under thurty four years of age Applications for nominations should be sub Applications for nominations amount be aub mitted to the General Assembly's Committee on Indian Churches along with testimanial-based on a personal knowledge of the candidates qualifications Chaplains will be on probation for three years (a) if confirmed in their ap pointment at the end of that period they will be admitted as Junior Chaplains

The salaries of Chapleins are Senior Chaplains Rs. 10 200 per annum, and then Rs. 12,000 per annum Junior Chaplains, Rs. 6 360 per annum for five years, and thereafter Rs. 8 180 until

promoted to be Senior Chaplains.

## Chaplains on probation Rs. 5 760 per

Junior Chaptain becomes a Senior Chaplain after 10 years service, excluding the period of probation

The retiring pay of Chaplains is regulated by the following scale -

Per arnum 2 8 d

After 28 years service with an actual residence in India of 20 years including the period of 885 0 0 nobation On Medical Certificate

After 18 years actual residence in India, including the period

of probation 292 ditto After 13 years 173 7 After 10 years 127 15 ditto

### Educational Appointments

The Indian Educational Service comprises | The Indian Educational Service comprises those posts in the Rdiugational Department to which appointments are made in England by the Becretary of State, and is thus distinguished from the Provincial Educational Services, which are recruited exclusively in India. It consists of two branches the teaching including Principalities and Professoralips in the various Government Colleges and Head Masterbling including Inspectorships of Schools but officers may be transferred at the discretion of Government from one branch to the other and the conditions of pay and service are the same for both. It also includes certain special appointment such as those of Superintendents of Schools of Art for which special qualifies tions are required and special terms of engagement are prescribed. Officers of the teaching branch may be required to undertake duties in connection with the supervision of students in hostels or boarding houses and with the direc hostels or coarding houses and with the direction of their studies and recreations. Appointments are made by the Secretary of State as coession may require Only lavmen are alighbe candidates must as a rule be not less than 23 nor more than 30 years of age, but exceptions are sometimes made as regards the maximum limit only Candidates must be Ridtha hubbate and must furnish arddone the British subjects, and must furnish evidence of having received a liberal education

having received a liberal education
In selecting candidates for appointment
weight will be given to the possession of (a) a
University degree in Honours, or equivalent
distinction (b) experience as a tascher (c)
qualifications in special subjects, depending
on the nature of the vacancy to be filled. In
selecting candidates for inspecting appoint
needs, weight is given to inspirate tailent,
capacity for organization and knowledge,
practical or theoretical, of educational mathods.

The salaries paul are as follows—A newly appointed Inspector or Professor receives Rs. 500 a month i ling by annual increments of Rs. 50 a month to Rs 1 000 a month When this point has been reached the increase of his emoluments depends upon his promotion and takes the firm of allowances ranging from Rs 200 to Rs. 500 in addition to the salary of Rs. 1 000 There are at present 80 such allow ances. There is in every Province a Director of Publi Instruction. The poets of Director of Public Instruction are reserved for the Indian Educational Service so long as members of that Service can be found well qualified to fill them. Their pay differs in different Provinces

Three receive a salary of Rs. 2 000-100-2 500 a month

Two receive a salary of Rs 2 000 a month. One receives a salary of Bs. 1750-50-2 000 a month

Two receive a salary of Re 1500-100-2 000 a month

One receives a salary of Rs. 1 250 rising to Ra. 1 500 a month

Head Masters are appointed on an initial pav of Ba 500 rising by annual increments of Rs. 50 a month to Bs 1 000 a month, except in cases in which Local Governments may prefer to re-ruit on the scale of Rs 500 a month, rising

pais of Training Colleges, and occasionally Headmistresses of Schools. The salary attached to those appointments is ordinarily Re 400 a month, thing by annual increments of Rs. 20 a month to Rs. 500 a month.

The Secretary of State is sometimes requested ether a temporary or a perma-by the Government of India to supply persons. The salary is Ra. 500 a month to fill temporary vacancies in the Indian Eth.

cational Service, generally professorables in Colleges Such appointments are made for not less than a university year (about nine months), with a prospect, in the case of theroughly approved service of inture selection to file ether a temporary or a permanent appointment. The salary is Ra. 500 a month rising by sunual

### Indian Forest Service

Candidates must be not less than 10 but under the age of 28 years

Candidates must have obtained a degree with Honours in some branch of Natural Science in a University of England, Wales or Ireland, or have passed the Fmal Bachelor of Science Examination in Pure Science in one of the Uni versities of Scotland. A degree in Applied Science will not be considered as fulfilling these conditions Candidates will be required to produce evidence that they have a fair know ledge of either German or French

The ordinary period of probation will be two years. During that time probationers will be required to pass through the Forestry course required to peas through the Forestry course at one of the following Universities—Oxford Cambridge or Edinburgh (subject to the ar rangement of a suitable course)—becoming members of that University if not as already to obtain the Degree or Diploma in Forestry which it grants and to assisty such other tests of professors as well as a subject of professors as a subject of the course of the co of proficiency as may be deemed necessary

During the vacations the Probationers will under the direction and supervision of the Director of Indian Forest Studies appointed by the Secretary of State for India in Council receive practical instruction in such British and Continental forests as may be selected for the ригрозе.

The Secretary of State for India in Council will make payments to each Probationer at the rate of £120 annually not exceeding a total of

Probationers who obtain a Degree or Diploma in Forestry, and also satisfy such other tests of proficiency as may be prescribed, will be appoint-

The Secretary of State for India in Council ed Assistant Conservators in the Indian Forestmakes appointments of Probationers for the Department, provided they are of sound conindian Procest Service, according to the numbers stitution and free from physical defects which
amountly required would render them unsuitable for employment in the Indian Forest Service

The sanctioned scale of the service at present

1 Inspector General of Porests 2,650 a month. 1 Assistant Inspector General of Forests

2 Chief Conservators (Burma and Central Provinces) 2,150 onservators, in three 1900 grades (including Press 1,700 dent Porest Research 1,500 1,500 22 Conservators. Institute and College;

hnd 187 Deputy Assistant

Conservators An Assistant Conservator of Forests will draw pay at the rate of Rs 380 a month from the date of his reporting his arrival in India rising by annual increments of Rs 40 a month to Rs. 700 a month, thereafter by annual in to Bs. 700 a mount, therearer by annual in crements of Rs 50 a mouth to Re 1,250 a mouth in the 20th year of service.

After a service of not less than 20 years, a

retiring pension is granted not exceeding the following amounts

	Stale of P	'enьion	
20 (	Years of Completed Service	Sixteths of Average Fm., iu ment 9	Maximum Limit of Pension
	to 24 and above	80	Rs 4 000 a year Rs, 5 000 a year

### Indian Geological Survey

The Geological Survey Department is at present constituted as follows -Monthly Salary

1	Director
3	Superintendente
15	Assistant Superintendents —
	For the first five years
	Thereafter
1	Chamist.

Rs	-	-	
2,000		Rs.	Re
1 000	noing by	80 to	1 400
3.0		30	500
500		50	1 000
600		JO.	1 000

Appointments to the Department are made by the Secretary of State for India. They will usually be made about July of each year and the probable number of appointments will, if possible, be amnounced about two years in advece. The age of candidates should not reposse the growth of the probable and two years in adveces. The growth of the probable and two years in adveces. The growth of the probable probable in growth of the probable

### India Office.

Vacancies in the clerosi establishment of the Secretary of State for India are filled from among the successful candidates at the General Examinations (Class I and Second Division) which are held from time to time by the Civil Service Commissioners for appointments in the

### Indian Public Works Department

The Secretary of State for Indus in Council | 3 The vertical appointments of Assustant Engineers | as follows in the Public Works Department of the Govern ment of India

Candidates must have attained the age of 21 and not attained the age of 24 years

Candidates must produce evidence that they have (1) obtained one of the University degrees mentioned in Appendix I or (2) passed the AMLION Examination or (3) obtained such diploma or other distinction in Engineering as may in the opinion of the Selection Committee be accepted as approximately equivalent to the degrees mentioned.

The Engineer Establishment of the Indian Public Works Department consists of a staff of engineers, military and civil engaged on the onsuredium and maintenance of the various public works undertaken by the State in India

- 2. The permanent establishment of the Department is recruited from the following somrees -
  - (1) Officers of Royal Engineers
  - (2) Persons appointed to the Imperial Service by the Servetary of State by selection from the United Kingdom
  - (3) Persons educated at the Government Civil Engineering Colleges in India and appointed to the Provincial Services by the Government of India
  - (4) Occasional admission of other qualified регьова

3 The various ranks of the department are

4H 10110H3	f.	
	5	alary per
		ennum.
		(Imperia)
		Nervice)
		Re
(blef Engineer First		33,000
	d Class	30 000
Surerintending Engine	eer First Class	24 000
	Second Class	21 000
	Third Class	19 000
Executive Engineer	20th year of	
service and followin	OT VPS CS	15 000
Executive Engineer 1	9th year of	20 000
	service	14,400
1 1	8th	13 800
	7th	18 200
	0th	12 600
	šth	12 000
	4th	11 400
	8th	10 800
1	2th	10 200
	1th	9 600
	.0th	9 000
Assistanc inigineci i	9th	8 400
ĺ	8th	7 920
1	7th	7 440
	đth	6 960
	٦th	6 480
	4th	6 000
	3rd	6 520
	2nd	5 040
	1st	4,560

The increments will be given for approved service only and in accordance with the rules of the Department

Exchange compensation allowance will not be granted to future entrants

Promotions above the grade of Executive Engineer are dependent on the occurrence of vacancies in the sanctioned establishment and are made wholly by selection—more seniority is considered to confer no claim to promotion

### State Rallways

The Secretary of State for India in Council will, from time to time as may be required, make appointments of Assistant Traffic Super intendent on Indian State Railways

Candidates must possess one or other of the tollowing qualifications etc. -

- (c) Not less than two years practical experience of work in the Traffic Department of a British or Colonial Railway together with evidence of a sound general editionation.
- (6) A degree or diploms of any teaching University in the United Kingdom granbed after not less than three years study in that University, or a technical

diploms or certificate recognized by the Secretary of State

The establishment of the Superior Traffic Department of Indian State Railways consists of a stair of officers military and civil, engaged on the various railways administered by the State in India This cestablishment is recruited from the following sources

- (1) Officers of Boyal Engineers.
- (il) Persons appointed by the Secretary of State by selection from the United Kingdom
- (iii) Persons appointed in India.
- ly) Occasional admission of other qualified persons

The various ranks of the Dep	ertment are as
	Salary per annum. Rs
Traffic Managers	94 000
Deputy Traffic Managers	18 000
District Superintendents —	
Class II Grade 1	13 200
Grade 2	12 000
Grade 3	10 800
Grade 4	9 600
Grade 5	8 400
Amistant Superintendents —	
Class III Grade 1	6 600
Grade 2	5 400
Grade 3	4,800
Grade 1	8 600
Grade 5	2 400 3 000

The establishments of the Superior Locomotive and Carriage and Wagons Departments of Indian State Railways consist of officers engaged on the various railways administered by the State in India. These establishments are recruited from the following sources—

- (i) Persons appointed by the Secretary of State by selection from the United Kingdom
- (ii) Persons appointed in India
- (iii) Occasional admission of other qualified persons

The various ranks of the Departments are as follows —

		ary pe annum Ra
Locomotive Superinte	ndents	24 00
Deputy Locomotive S	uperintendent	18 004
Carriage and Wagon	Superintendents 18 000 o	r 21 00

Dep	outy Carriage endents	and Wagon	Superin 15	000
1	District Sup-	erintendents -	_	
-6	Class II	Grade 1		200
뜁	_	Grade 2		000
異	Pa .	Grade 3		800
₽	**	Grade 4		600
Departments.	н	Grade 5		400
84	Assistant Su	perintendents		
A.	Class III.,			600
_	. ,,	Grade 2		400
Both		Grade 8		900
Ā		Grade 4		600
	,,,	Grade 5	2 400 3	000

### Telegraph Department

There are not at present any vacancies in the Superior Establishment of the Indian Leigraph Department and it is conside ed un necessary for the present to recruit any Assistant Superintendents from the United Ringdom. The arist cement for the future recruiting of the Department have not been finally settled. The various ranks of the superior establishment are as follows—

	Maximum Balary per mensem
	Ba
Director-General	3 000
Deputy Director General	2,000
Directors	1 800
Deputy Directors	1 600
Chief Superintendents, 1st Class	1 400
Chief Superintendents 2nd class	1,250
Superintendents 1st Grade	1 000
2nd Grade	850
Assistant Superintendents 1st Grade	700
2nd Grade	550
3rd Grade	450
4th Grade	850

### His Majesty's Indian Army

A certain number of appointments to the Indian Army are offered to Cadets of the Royal Mintary College and a certain number to candidates from the Universities All kings Cadets normal and Indian and Honorary King's Cadets nominated by the Secretary of State for India in Council have the option during their last term at the Royal Military College of electing for appointment to the Unattached List for the Indian Army or for appointment to commissions in British Cavalry or Infantry The appointments to the Unattached List for the King's Cadets and Honorary king's Cadets (Indian) have been estifated are allotted in order of merit to Cadets who satisfy the requirements of the Regulations respecting admission to the Royal Military College and who elect to compete for such appointments at each final Examination at Sandhurst.

### King's India Cadetships.

Twenty King's India Cadete are nominated each half year from among the sons of persons who have served in India in the Military or Civil Service of His Majesty or of the East India Company A Candidate is not eligible for nomination as a King s India Cadet if he be under 17 or over 19]

A candidate is not eligible for nomination and his claims will in no circumstances be considered until he (a) has qualified at the Army Entrance Examination or (d) is prepared to attend the next examination. The fees of King's India Casiets at the Royal Milltary College are not payable by the State except in cases where after due inquiry their pecuniary circumstances are ascertained to be such as to justify the payment.

### Honorary King's India Cadetships.

Three Honorary King's India Cadeta are nominated annually by the Secretary of State for India. Such Cadets are appointed from-

(c) The sons of officers of the Indian Army, who were killed in action or who have died of wounds received by action within six

months of such wounds having been receiv ed or from liness brought on by stigue, privation or exposure, incident to active operations in the field before an enemy within six months after their having been first cartified to be ill.

(b) The sons of officers of the Indian Army who have obtained the brevet substantive rank of Major or Lieutenant-Colonel and have performed long or distinguished service

An Honorary Kings Cadetahip carries with it no necuniary advantage

### Ogeen Alexandra's Military Nursing Service for India

The Nursing establishment is for duty with British officers and soldiers and at present consists of -

- 4 Lady Superintendents.
- 16 Senior Nursing Sisters
- 71 Nursing Sisters

The numbers in these grades are subject to atteration

Nursing Sisters at the time of appointment must be over 27 and under 32 years of age Candidates for the Service must have had at least three years preliminary training and ser vice combined in the wards of a British general hospital or hospitals of not less than 100 beds in which adult male patients receive medical and surgical treatment and in which a staff of Nursing Bisters is maintained

The duration of a term of service for all The duration of a term of service for an agrades of lady nurses is five years. A lady nurse who has been pronounced by a medical Board to be physically it for further service in India may be permitted to re-engage for a second and third term at the option of the Government and again for a fourth term or until the age of compulsory retrement it in all respects efficient and if specially recom mended by the Commander in their in India-But a lady nurse will not under any circum stances be permitted to remain in the service in the grade of Lady Superintendent beyond the age of 50 years or in either of the other grades beyond the age of 50 years

### Rates of Pay

(In addition to free quarters, fuel, light and punksh pullers.)

Rs. per mensem Lady Superintendent 900 Senior Nursing Sister over Ave years in grade 225 enior Nursing Sister un der five years in grade ursing Sister over five Senior

Years in grade
Varang Sister under five
Years in grade 200 175

Nursing

### Royal Indian Marine.

All first appointments of executive officers in the Royal Indian Marine are made by the Seuretary of State for India.

The limits of age for appointment to the lunfor executive rank that of Sub Lieutenant, are 17 and 22 years and no candidate will be appointed who does not possess the full ordinary Board of Trade certificate of a Second Mate ertificates for foreign going steamships will not be accepted

#### PAY AND ALLOWANCES.

The present establishment of officers of the Royal Indian Marine and their allowances are as follows -

> 32 Commanders on pay ranging per mensem from Rs 850 to Rs 500 in addition to staff or command nav

#### THE THORSETT

		_			
	Lieutenants completing				
- 1	years some	ritv	On	Rя	300
- 1	Lieutenanta	an	٠.,	***	
	completing	- ax			
	years remi	ority	On	$\mathbf{R}_{\mathbf{z}}$	250.
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	seniont⊽		On	Rs	200.
	Lieutenants	mder			
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	geniority		$o_n$	Rв.	150
	Sub-Lieutena	nta	On	Ra,	125
	Sub-Lieutens				100.
	(рито–ттеятепа	шь	Oπ	D.B	100,

#### Total 104

In addition 8 Commanders and 8 Lieutenants are at present employed in the Marine Survey of India

A certain number of Shore, Port, and Marine Survey appointments are usually reserved for officers of the Royal Indian Marine The num-pers so reserved and the allowances attached (in addition to pay of grade) are as follows -

AHOWARCE per mensem. 400-1000 4 Shore appointments 320-870 16 Port appointments per diem.

11 Marine Survey appointments

The sanctioned establishment of the Engl meers branch of the Marine numbers 82, of whom at present, 10 are Chief Engineers, and the remainder Engineers and Assistant Engi TIPOTA.

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action	(b) Equivalent with	બ	2 431	2,511	2 591	2 671	2 751	2,831	2,911	2 901	1,071	\$,161	1833	3,011	4 111
Callent sarvice in This abovance is Nort to alteration (Fe Compensation	ductalent A D H	442	2 120	2 400	2,480	2,560	7 840	2,720	800	2,880	2 960	\$ 040	3,120	3,200	4,000
449	Rupees per Annum		34 A00	36 000	37 200	38 400	89 600	008 07	48,000	43 200	44 400	45 600	46 800	48,000	000 00
fitton f. the	нирее рст Мерыри		2 900	3 000	3 100	\$ 200	9 800	3 400	3 500	3 600	3 700	3 800	3 900	4,000	2000
8 E E E	(b) Equivalent with	43	1 360	1 445	1030	1615	1 700	1 785	1870	1801	2 031	2111	2,101	7.5-1	2 351
cancers to been in mind that in some cases Exchange Compansation Allowance in apparent the rice of 64 per cent to the salary subject to a maximum of 18 189 14 1 a month of any material varieties in the average rate of exchange between England and India with a label shows the approximate equivalent in sterling of the rupe. Salaries station of granted (b) when it is granted at the rate past mentioned	Equivalent without B C A	-4	1.280	1 360	1 440	1 620	1 600	1 680	1.66	1.940	1 920	2 000	2 080	2 160	2,240
a unawin by antopean ap Compensation Allowance in Insurance of Be 138 14 a Stange between England and a stering of the ruper. Salan entraned—— Salan	Виреев рет Аплип		19 200	20 400	21 600	008 22	24 000	25 200	26 400	27 600	008 87	80 000	31 200	32,400	88 600
mpensatio comum of ige betwee	Rupees per Manson		1 600	1 700	1 800	1 900	2 000	2 100	7 200	2 300	2,400	2 500	2,600	2 700	2 400
are Exchange Compense abject to a meximum to mate of exchange bett equivalent in sterling is rate just mentioned	Equivalent with	4	52	536	63.7	089	727	765	807	850	935	1 020	1 105	1 190	1 275
the salary subject to an the salary subject to an the average rate of approximate equivalent granted at the rate just	Equivelent without Equivelent without	લ	220	993	600	840	080	720	9	840	986	096	1 040	1 120	1 200
mind that in some or cent on the salary aristica in the avera a the approximate en it is granted at the	Вирее рет Аппип		7 400	8 400	000 8	009 6	10 200	10 800	11 400	12,000	18 200	14 400	15 600	16 800	18 000
nind that cent on t clarifon m the ap on it is gr	Rupees per Mensem	_	620	200	2.50	908	850	90%	000	1 000	1 100	1 200	1 300	1 400	1 500
bear in mile f 64 per certail variable shows d (b) when	Equivalent with	વ્ય	99	101	727	140	170	212	265	297	340	888	<b>4</b> 25	191	010
In the increasery to foest in mind that in some cases Exchange Companiestory present at the rate of 64 per cert of the salary subject to a maximum of Experiment of any material variation in the average rate of exchange between the circumstance of any material variation in the average rate of exchange between the following rates of exchange the approximate equivalent in stering of the owners is not greated (b) when it is granted at the rate pust mentanced—	Rquivalent without	ч	æ	100	120	140	180	200	012	280	925	900	007	97	97
t le ne cat at event be foll- nce is	Bapes per Annum		1,200	1 500	1 800	<b>3</b> 100	2,400	8,000	9,600	00g 7	00e *	£ 400	000,0	900	7,200
India, 1	нымений терест		99	12	250	176	9	3	Ş	25	3	3	2	2	\$

### The Indian Civil Service.

In the early years of the eighteenth century includes among others the offices of secretaries that a body of traders was still little more than a body of traders. The genesis of the Indian Civil Service is to be sought in the most offices and Collectors of Districts (in the regulation provinces) and joint and seasons. found itself year by year more involved in the government of the country with which it was government of the country with which it was trading. It was gradually realled that neither the pay nor the training of the Writers Factors and Merchants of the Company was adequate to the administrative work which they were called on to perform As a result this work was often indifferently done and corruption To Lord Cornwalls is due the credit was rife was He to Lord Cornwais is due the credit of having reorganized the administrative branch of the Company's service in accordance with three main principles from which there has been hitherto no deviation Those way that every civil servant should covenant neither to coping in trade nor to receive presents that the Company on their side should provide salance sufficiently handsome to remove the tempts thou to supplement them by illegitmate means and that in order that the best men might be attracted the principal administrative posts under the Council should be reserved for mem bers of the Covinanted Civil Service as it was The first of these principles is embodied not only in the covenant which every member of the service still has to sign on appointment, but also in the Government Ser vants Conduct Rules which are applicable to every civil department however recruited As regards the second the scale of salaries originally prescribed was so handsome that it has not yet been considered expedient to undertake any general revision of it. The list of reserved posts remains too much the same as in 1793 though certain modifications have been introduced to meet Indian aspirations

At first nominations to the service were At irst nominations to the service were made by the Directors, but this right was with drawn by Act of Parlament in 1858 and since 1855 appointments have been open to public competition, all natural born subjects of the Crown being eligible. The age limits and other conditions of examination have varied comsiderably from time to time but at present candidates are examined between the ages of 22 and 24 At first volue officers were sent straight to their appointments on recruitment but in 1806 Lord Wallesley established a col-lege at Fort William for their preliminary train ing. This was not a success and in 1805 a college at Halleybury was substituted and for 58 years nominees underwent a two years training there before proceeding to India At present a year's course at a British University prescribed, and at the close of this year there is a further cramination Failure to pass this means final loss of appointment and semiority in the service is determined by combining th result of the open competition and this final compulsory examination

The Statute of 1798 (88 Geo cap 52) modified in 1861 sets forth the list of offices reserved By the time the highest grades in the offices for members of the Indian Civil Service It of Collector or Judge are reached the Civilian

Magistrates and Collectors of Districts (in the regulation provinces) and joint and scalar-ant Magistrates and Collectors. In the non regulation provinces many of the above posts regulation provinces many of the above posts are held by military officer. In addition to these reserved posts there are many other appointments which the indian Givibian can hold. He is now however debarred from permanent appointment as Governor-General or Governor the highest office he can attain being those of Lieutenant-Governor and Member of the Viceroy's Council

Despite the complete cligibility of natives. of India and deepite the numbers of Indians who now seek their education in England comparatively few have succeeded in obtain mg appointments by open competition. On the 1st of April 1913 only 46 of the 1 319 civi llans on the cadre were natives of India In 1870 an important Act (33 Vet cap 33) was added to the statuse book which allowed the appointment of natives of India of proved merit and ability to any of the offices re served by law to members of the toxenanted Civil Service such officers were known as Statutory or Uncovenanted Civilians This method of appointment was dropped in 1880 and faculties were afforded to Indians for promotion through the ranks of the Provincial Ser

The voing evisan on joining his appointment in India is attached to a district as assistant to the Collector. He is given limited inagisterial powers and after passing examinations in the vernacular and in departmental matters he attains to full magisterial powers and holds charge of a revenue subdivision. During this period he is liable to be selected for the judicial branch and become an Assist for the judgest branch and become an Asset ant judge. In course of time promotion occurs and he becomes either Collector and District Magistrate or District and Sessions Judge this promotion does not generally occur before he has served for at least ten vers. The Dastrict Judge is the principal civil fribunal of the district and wickles extensive appellate powers. In his capacity as Scotlons Judge he trues the more important criminal cases of the district.

The Collector is not merely chief magistrate and revenue officer of his district. He sho forms a court of appeal from subordinate ma torms a court of appeal from subordinate magistrates supervises municipalities and located is chief excise officer and district registrar and in general represents Government in the eves of the people. The Collector and his assistants are expected to travel over their charges touring rules vary in different provinces but in Bombay the Collector spands four and his assistants seven months in the veer on dur. year on tour

<sup>•</sup> The Chief Revenue Officer of a District is known as the Collector in the regulation movinces of Bengal, Matras, Bombay Agra and Bohar and Orlsus. Elsowhere he is the Deputy Commissioner and his assistants are Assistant Commissioners.

hes, as a rule, nearly completed the 25 years which are necessary before to can retire Should be elect to continue in service there are still posts to which he can look forward for promotion. On the one hand, he may become a Commissioner or even a Member of Council and on the other there are Judicial. Commissionerships and scats on High Court Benches Such is the normal eareer of a Civi Bernobes Such is the normal career of a Civil han, but this by no means, completes the account of his prospects, for nearly one-fourth of the service is as a rule amployed in postensome reserved and some not—out of the regular lime. A number of Civilians are employed in the Imperial and Provincial Secretarists, some are in political employ in the Native States others held responsible poel tions in the Customs, Police, Sair Post Office and other departments, or supervise big muni chalities and public trusts. cipalities and public trusts.

The Civillan may retire after 25 years ser vice and in the ordinary way must retire on reaching the age of 55. He contributes through out his service to a pension which is fixed regardless of whether he has risen to be a Lieutenant Governor or has remained at the fnot of the ladder Every Civilian moreover married or single, subscribes to an annuity fund which provides for the widows and orphans of deceased members of the service.

### Public Services Commission

In July 1912 it was announced that the King had been pleased to approve the appointment of a Royal Commission to examine and report upon the Public Services in India The Boyal Commission was constituted as follows -

Chairman - The Right Hon Lord Islington K C. W.D.

The Earl of Ronaldshay M.P.

Str Murray Hammick LCS.I OIR. Indian Civil Service

Sir Theodore Morison E C.I.E., Member of the Council of India

Service

Mahadev Bhaskar Chaubal, Esa Member of the Governor of Bombay's Exe cutive Connell.

Gopal Krishna Gokhale, Esq. CIE., Member of the Vicerov's Legislative Council

Walter Culley Madge, Esq. C.L.E., Member of the Viceroy's Legislative Council

Abdur Bahlm, Req Judge of the Madres High Court

James Ramsay MacDonald, Req. M.P. Herbert Albert Laurens Fisher Esq Fellow and Tutor of New College Oxford

The Terms of Reference were as follows --To examine and report upon the following matters in connexion with the indian Civil Service, and other civil services, Imperial and

- 1) The methods of recruitment and the systems of training and probation
- (5) The conditions of service, salary leave, and penulon

(3) Such limitations as still exist in the employment of non Europeans and the working of the existing system of division of services into imperial and Provincial

and generally to consider the requirements of the Public Service and to recommend such changes as may teem expedient.

Work of the Commission.—The Royal Commission visited India in the cold weather of 1912-19 and toured extensively in India, including Burns confining their attention mostly to hearing the evidence of and relating to the Indian Livil Service. They subsequently sat in London and in October 1918 again left for India to enquire into 28 Services other than the Indian Civil and the Provincial Services. They assembled first at Delhi on Movember 3rd, and examined Imperial officers and wisnesses from the United Provinces the Punjab and the North West Frontier Province They then assembled at Calcuits in the middle of December to hear witnesses from Bengal, Bihar and Orissa, and Furma

Early in Pebruary the Royal Commission went to Madras, and completed the tour at Bombay where witnesses from Western India and the Central Provinces were heard The Commission returned to England in the spring of 1914, and has drawn up a report of which publication has been delayed on account

ot the war

### **Temporary Provisions**

In October 1915 a Bill was introduced into the House of Lords entitled An Act to enable Persons during the continuance of the War and for a period of two years the reafter to be appointed or admitted to the Indian Civil Service without examination The Service without examination like following is the text of its provisions — (1). The Service and assistance of the fivil Service se council of India

Sir Valentine Chirol

Frank George Sly Esq OSI Indian Civil Civil Service by the Secretary of State in Coun oil during the continuance of the present war and for a period not exceeding two years there after of British subjects possessing such quali floations with respect to age and oth rwise as may be prescribed by the rules notwithstand ing that they have not been certified as being ntitled for appointment as the result of examination in accordance with the regulations and rules made under section thirty two of the Government of India Act 1858 ard section ninety seven of the Government of Irdia Act Provided that—(a) not less than one 1015 fourth of the persons admitted to the Indian Civil Service during such period as storesaid shall be persons who have been so certified as aforesaid and (b) a person shall not be appointed to the Indian Civil Service under the cul a made under this section unless the Civil Service Commissioners certify that by such means as may be prescribed by the rules they have satisfied themselves that in their opinion he possesses the necessary educational quali-fications.

The provisions as to the laying before Parliament of regulations and rules made under

the said sections thirty two and ninety seven shall a pply to the rules made under this section This Act may be cited as the Indian Civil Service (Temporary Provisions) Act, 1915

In the debate on the second reading of the Bill, Lord Islington explained that this was an emergency Bill introduced to meet the difficulties created by war conditions. Govern ment saked Parliament to authorise the suspenalon of the statutory system of open competition on two grounds. They wished to prevent any deterioration in the class of officers to be recruited for the LCS and they sought power to provide a method by which those who were fighting at the front should as far as possible be protected from losing their areers as Indian Civil Servants owing to their patriotic action The Bill sought to secure those ends Govern ment was anxious that no injustice should be done to Indians and therefore contemplated that if with the examination of one fourth that if with the examination of one fourth there was not as a result the same proportion the LCs unless the Secretary of State acting of Indians successful as had been the case in former years that number would be made up by selection becastier Provision for this was to be included in the rules formulated to give effect to the Bill In the debate which is creatly arbitrary use of the powers of the followed Lord Macdonnell argued that the

process of selection in the case of Indiana could be far better carried out in India than in White the functions of the Vicercy who could command the best information as to the relative merits of candidates and in India where the Islington argued in reply that the unsuccessful Indian candidates had a right to be considered. Lord Macdonnell further raised the guestion of the con position of the Selection Board and moved an amendment under which the hoard would consist of not more than nine numbers including the First Civil Service Commissioner a member of authority in public affairs and representatives of the Universities and the public schools On the suggestion of Lord Sydroham he added that there should be at 1 ast one member with a knowledge of India By an amended ub-section it has been Provided that no person shall be appointed to the LOS unless the Secretary of State acting with the advise at the Civil Service Commis-sioners is satisfied that he possesses the neces

### THE INDIAN MEDICAL SERVICE

The Medical Service under the control of evolved from the system initiated in quite the Government of Indla consists of some seven hundred and sixty eight medical men seven manared and sixty eight medical ment recrulted in England by competitive exami-nation and has as its primary duty the care of the native troops and of the British Officers and their families attached to them. But in the course of rather more than a century and a half other duties and responsibilities have accrued to it, so that there are in addition the provision of medical aki to Civil Servants and their families the administration of the civil hospitals of the large towns, and the supervision of the numerous small dispensaries provided either by the Government or private charity for the inhabitants of the larger villages. Moreover the Service provides for the sanitary control of large areas dealing with the senitation of towns, protection of water supplies and the prevention of epidemic disease it is also represented in the Kative States by the Residency Surgeon and in Persia by the Medical Officers to the British Consulates. The Jail Department is also administered in great part by Indian Medical Officers generally in the dual capacity of Medical Officers and Superintendent and up to quite recently the Officers in the Minteliave been recruited from members of the medical profession. Lastly the Service provides the men who are engaged in original research on diseases of tropical importance at the Becteriological Laboratories which have arisen in India during the last fifteen years, and others who as Professors at the large medical schools have bed the task of creating an indigenous medical profession which will make permanent throughout the Indian Empire. and their families attached to them. But in the course of rather more than a century

early days by the old East India Company of providing Chiruppons from England on the nomination of the Board of Directors in London for the care of the people and sol diers in the Indian Factories and on the ships trading with the East Besides these men the Company maintained several medical services including those of St Helena the West Coast of Sumatra Prince of Wales Island and the China Coast The Surgeons on the Company a Indiamen were frequently util light for emergent work in India, as in the case of the Mahratta War of 1.60 and other military operations of that time for duty with troops and sometimes to fill vacancies occurring among those who would now be styled civil surgeous

Organisation—The Indian Medical Service practically dates from the year 1.64 when the scattered medical officers serving in India were united into one body later this was divided into the three medical "Es tablishments of Bengal, Madras, and Bombay In 1766 the Medical Service was divided into two branches military and civil the latter into two branches military and civil the latter being regarded as primarily army medical officers, lent temporarily for civil duties, in which they formed a reserve for the Indian Army and were consequently liable to recall at any time This position was confirmed by the Council of Lord Cornwallis in 1785 at the Becteriological Laboratories which have; by the Council of Lord Cornwains in 1783 arisen in India during the last fifteen years, and has been in existence even since with great cal schools have had the task of creating advantage to the military authorities in times of indigenous medical profession which will make the Service were given military rank, and since permanent throughout the indian Empire 1906 all the names have been borne on one the civilleng indicence of Western McGichie. Itst, though nea on entering the service are responsibilities in a single Service has slowly will serve on entering the Civil Department. \*

The Service was thrown spen to Indians by the India act of 1868 the first competitive examination being held in January 1866, when the list was headed by a Bengales student who subsequently attained distinction. It was each table to be the control of the Benyales student who subsequently attained distinction. It was each table that the benyales the benyal them January 1855 to the end of 1910, eighty size men of pure Indian extraction had entered the Service. The proportion now shows signs of yearly increase. The total number of Indians at present in the Service number of incume at present in the Sevice is a little more than five per cent of the whole while, of the successful candidates during the past five years, 17 6 per cent, have been men born and bred in the country

Method of Entry -Entrance into the Ser-Method of Entry—Entrance into the Service is now determined on the results of competitive examinations held twice a year in London the Regulations regarding which and the rates of pay rules for promotion and pendon relating thereto may be obtained on application to the Military Secretary at the India Office. Candidates must be natural born subjects of Ris Majesty of European or East Indian descent of several be natural form subjects of his majesty of European or East Indian descent, of sound bodily health, and in the opinion of the Secretary of State for India in Council, in all respects suitable to hold commissions in the Indian Medical Service They may be married or unmarried. They must possess, under the Medical Acts in force at the time of thate appointment a qualification. of their appointment a qualification region strable in Great Britain and Ireland No considerate will be permitted to compete more than three times. Candidates for the January examination in each year must be between 21 and 28 years of age on the 1st February in that year and candidates for the July examination must be between 21 and 28 years of age on the 1st August

The candidate will be examined by the Resembling Board in the following subjects, and the highest number of marks obtainable will be distributed as follows—

The second sections and a second seco	-	
(1) Medicine including Thera penties	1 200	Man
(9) Brieroen including disco.	1 200	TIME
(2) Burgery including diseases of the eye	1 200	
(3) Applied Anatomy and		**
(3) Applied Anatomy and Physiology	600	
(4) Pathology and Bacterio	000	.,
logy	900	
(6) Midwifery and Diseases of		
(6) Midwifery and Diseases of Women and Children	600	
(0) W-4:-1 25 14	000	

Officers appointed to the Indian Modical Service will be placed on one list, their partion on it being determined by the combined results on to paning determined by the continuous results of the preliminary and final examinations They will be liable for military employment in They will be liable for military employment in any part of India, but with a view to future transfers to civil amployment, they will standposted to one of the following civil areas —(1) Madras and Burma, (2) Bombay with Aden (3) Upper Provinces 16. United Provinces, Punjab and Central Provinces (4) Lower Provinces

The allocation of officers to these areas of employment will be determined upon a consi deration of all the circumstances including as far as possible the candidate a own wishes

ar as possible the candidate s own wishes. The whole ocurse lasts for four months after which the duly gasetized Lieutenants of the first years of their service are attached to native regiments in any part of the country. The doctor is an officer of the regiment, as was the case in the old days of the Army Medical Department. Of late years it has been proposed to form the members of the bervice into a corps on the lines of the British Merical Sareba by on the lines of the British Medical Service by forming station hospitals for native troops, thereby releasing the doctor from regimental life. This reform appears to have fallen life. This reform appears to nave fallen through for the present, but is likely to be brought into operation within a very few years. Several appointments in the Civil Department are now reserved for Indians recruited in the country

Organisation.—The Head of the Service is the Director General, who is an official of the Government of India and its adviser on medical matters. He is also concerned with questions of promotion of officers to administrative rank and of the selection of men for admission to the civil department. Attached to his office and under his general in the Authority of the civil selection of the civil department. Attached to his omee and under his general supervision is the Sanitary Commissioner with the Government of India, who is to have the control of the new Sanitary Service a department which is undergoing enlargement and re-arrangement. In each Presidency or Province there is a local head of the civil medical medical and reservice and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical medical and control of the civil medical service and medical adviser of the local administration who is either a Surgeon General or an Inspector of Civil Horpitals of the rank of Colonel The medical service in each province consists of the Sanitary Branch and the purely professional. The former is composed of Sanitary Commissioners of Districts, who by keeping large tracts of country under observation are in a position to (6) Materia Medica, Pharma oology and Toxicology 600

F. The Examination in Medicine and Surgery will be in part practical, and will include operations on the dead body the application of surgical apparatus and the examination of needical and surgical patients at the bedside.

Having gained a place at the entrance examination of inedical and surgical patients at the bedside.

Having gained a place at the entrance examination of inedical and surgical patients at the successful candidates will be come in contact with the Service That official is generally as a large district consistency of the members of the Civil Medical Department in the successful candidates will be compared about a month a leavy They will the members of the Civil Medical Department it is going to two months such at the Keyal Army Kesisesi College, and at Aldershot respectively

medical aid to the civil servants and treat assumes, and to administer the hospital which has been provided by Government in each beadquarter town. In many cases too he will have the additional charge of the local jail, and be the Sanitary Adviser of the Municipality Accustomed to meet the most serious smargaceus of his profession and to ruly entrely on his own still and judgment, the Civil Surgeon in India has given to the Indian Medical Service a reputation for professional efficiency which cannot be ercelled by any other public medical service. Travellers in India falling sok within call of any of the larger towns can therefore rely on obtaining the highest professional skill in the shape of the ordinary Civil Surgeon of the I M S There have lately been signs that the popularity of the medical schools of the United Kingdom and consequently there is a suspicion that a class of man is now entering to f a somewhat lower type than that which has made the Service famous

A Parliamentary Paper containing correspondence between the Government of India and the Secretary of State, on the promotion of an independent medical profession in India and the possibility of limiting or reducing the cadre of the Indian Medical Service, was published during 1914. Writing in 1910 the Government of India said that it was impracticable to make any reduction in the number of Indian Medical Bervice officers employed solely on civil duries that it to say those not

belonging to the war reserve. An independent profession trained on western lines was growing in India but had to overcome its universal rival in the shape of Aslavar and others trained rival in the shape of Aslavar and others trained rival in the shape of Aslavar and others trained middlegoous methods. Government could do much to encourage the growth of this profession by making provision for the registration of medical practitioners qualified according to western methods. The Secretary of State, replyings in November 1912, and that he was unable to contemplate any substantial reduction in the Indian Medical Service as for the independent profession, he trusted that the independent profession, he trusted that the experience of the working of the Bombay Registration Act might justify the introduction of similar legislation for other Provinces. He considered that the Indian Medical Service should be restricted to the inlitary needs of the country both on account of economy and in order to increase as far as possible the number of important posts held by Indians he was prepared to consider each new appointment on its ments, but any proposal for an increase in the civil posts included in the cader of the Indian Medical Service would be subjected to the closest scrutiny. In reply to that deepatch, the Government of India wrote in March, 1914 — In view of the growing medical needs of the country which necessitate the employment of a larger staff of medical cofficers, some expansion of the Indian Medical Service in inevitable, and such expansion should not, in our opinion, he regarded from a different standpoint from the enlargement of any other cadre in response to the development of the work to be performed.

Pay and Allowance —The following are the monthly rates of Indian pay drawn by officers of the Indian Medical Service when employed on the nulitary side —

Rank	Unemployed Pav	Grade Pay	Staff Pay	In Officiating Medical Charge of 8 Regiment	In Permanent Medical Charge of a Regiment,
	Re	Ra	Re	Re	Ra.
Lieutenant	420	350	150	425	500
Captain	475	400	150	475	\$50
after 5 years service	475	4.0	150	525	600
after 7 years service	ì	500	150	576	650
, after 10 years service	i	J£0	150	625	700
Мајот		650 (	130	725	800
, after 3 years service as Major		750	150	825	900
Lecutenant-Colonel	I.	900	350	1,075	1,250
, after 25 years service		900	400	1,100	1 200
, , specially selected for in estated pay		1,000	400	1,200	1,400

Pressions and Half Pay — Officers are allowed to retire on pension on completing 17 years service, the amount they receive varying with the precise number of years they have served. The lowest rate for 17 years service is \$300 per annum, and the rate for 30 years \$700 per annum. The increases in pension for each additional years service over 17 are somewhat higher in the last 5 than in the first 8 of the 18 years between the shortest and longest periods of pensionable services. All officers of the rate of leutenant colonel and major are placed on the retired list on stateling the age of 50 years—the greatest age to which any officer can serve being 62

	Approx1	! 	Salary per Mensem			
Principal Civil Appointments	Number of Appoint ments in each Clas-	When held by a Lieutenant Colonel	When held by a Major	When held by Captain	When held by Lieute- nant,	
		R6	Ra	Rs.	Re	
Inspectors General of Civil Hospitals	0	2,250-2 500			}	
Sanitary Commissioner with Government	1	2 000-2,500				
of India Inspectors-General of Prisons	8	1,500-2 000	ı	]	]	
Principals of Medical Colleges	6	1 650-1 800	1 200-1,800		1	
Professorial Appointments	32	1 ,00-1 050	1 000-1 160	800-950	700	
Sanitary Commissioners	8	1 250-1 800	for all ranks	}	}	
Laputy Sanitary Commissioners	18	1 450-1 600	1 000-1 100	750-900	700	
Bacternological Appointments	11	1 600-1 600	1 05 <b>0-1</b> 150	700-900	650	
Superintendents of Central Lunatic	6	1 400-1 550	1 050-1 150	700 900	650	
Baperhaendents of Central Gaols	81	1 300-1 350	850-1 050	600-850	<b>550</b> -850	
Civil Surgeoncies (First Class)	.37	1 800-1,450	850 <b>-9</b> 50	600-750	550	
Civil Surgeoncies (Second Class)	171	1 200–1 850	750-850	500-650	450	
Probationary Chemical Examiner	1	ì	}	600-750	650	
Officers deputed to Plague Duty	20	1 460	1 000-1 100	750-900	700	

### **Pilot Services**

and by the tovernment of Bengal the latter date appointments are limited to Anglo Indians Competency as a Second Mate, or any higher and Eurasians and are made under separate grads for a foreign going ship and evidence to the case of appointment of the wing served at sea not less than two years made by the Secretary of State, preference is given casteria particus to candidates who have to casteria particus white on duty, are as passed through one of the trauning slips. Wor Leadamen Apprentices white on duty, are as

Appointments to the Bengal Pilot Service pointments must not be less than 18 and not are made by the Becretary of State for India more than 22 years of age. They must pro-and by the Government of Bengal the latter duce a Board of Trade or Colonial Certificate of ade by the Becretary of State, preference is unasquare-rigged saling vessel of over 300 considered partous to candidates who have based through one of the training sliplis. Wor term and Conway Candidates to the Becretary of States applicable of the Becretary o

When on the running list -

Junior Leadsmen 107 a month Second Mate Leadsmon 130 a month Piret Mate Leadamen 160 a month

Plus A per ent of the lead money and lected from the ships on which they do

When employed as Chief and Second Officer-Chief Officers of pilot vessels Rs. 160 a month

As Second Officers of pilot ves its 195 a month

Pins a meas allowance of Rs. 40 a month

After five years service a Leadsman Appreu tice is allowed to appear at an examination to quality him for appointment as Mate Pilot but it he shows exceptional ability and has passed each previous examination on his first passed each previous examination on his national attempt, bears a very good character and is otherwise well reported on this period may with the special manction of Government be reduced to 44 years After three years service as Mate Pliot, he is permitted to go up for an examination to qualify for appointment as Master Pliot, and if successful is promoted to that grade on the occurrence of a vacanty Vacancies which occur in the grade of Branch Pilota are filled by promotion from the Master Pilota grade of nen who have passed the Branch Pilota examination If the Local Government has reason to believe that a Pilot to owing to physical unfitness of any kind becapable of discharging his duties properly, it arranges for his medical examination and takes such action as may seem desirable when the results of that examination are commu nicated. In particular Pilots are medically examined after the occurrence of any accident to the vessel in their pilotage charge if the circumstances tend to show that the accident was in any way attributable to physical unfit ness on the part of the Pilot

Pilots are not entitled to any salary while on pilotage dut; but receive as their numeration a share, at present 50 per cent but liable to alteration at the discretion of the required examination to quality for per liable to alteration at the discretion of the required examination to quality for per body to the pilotage dues plad by ships pilotad by them. The Govern be struck off the list Promotion to the value of the pilotage dues after the date of his appointment is liable to require all Pilots to obtain a Home Trade who are per promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots are promoted to be Senior Master Pilots Borvice is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is subject to such grade who are paid according to the number of the Pilot Service is a subject to such grade who are paid according to the number of the Pilot Service is a subject to such grade who are paid according to the number of the Pilot Service is a the Government of India or as the control of the Pilot is about Re See 2nd Grade the Pilot Service is a the Government of India or a subject to such grade in the protect provide in the on pilotage duty but receive as their remune-

tune respectively make in regard to discipline, leave leave allowances number of officers in the service distribution into grades tonnage of ships to be allotted to the several grades etc and in all respects he is amenable to such orders as may be passed by the Government of Bengal and is liable to degradation suspen ion and dismissal by the Government of Bengal for any breach of such rules or orders, or for misconduct

Other Pilot Services -Bengal is the only province that has a covenanted pilot service elsewhere protage is under the control of the local Port Trust In Bombay for example the Port Trust have drawn up the following rules for entry into the service

To be eligible for admission to the Bombay Pilot Service candidates must be British Subjects and at least 21 years of age but not more than 32 They must hold certificates of competency as Master and excellent testi numisls as regards conduct character and ability They will be examined in the Port Office for form and colour vivous as prescribed by the Board of Trade and also an extra form vision test of each eye separately and must undergo rest of each eye separately and must undergo an examination by and produce a certificate from, the Medical Officer appointed by the Port Trustees that they are physically \$1, and are of a sufficiently hardy or strong cons-titution to perform a Pilot s duty and that they to all appearance enjoy good health Any Probattoner may with the sanction of the Port Officer go before the Examining Con-mittee and if he passes he will be eligible for appointment as a 8rd Grade Pilot when a vacance occurs. A Probattoner not passing the required examination to qualify for neg-

### The Indian National Congress.

BY D. R. WACHA

1888 by the late Mr Alian Octavian Hume, a retired member of the Indian Civil Service and the son of the distinguished Joseph Hume had helden and historia in the House of Commoos in the forties or fittles Mr Hume had adistinguished career in the service in his younger days when Collector and Magnitaria at Edward, he had rendered invaluable service in the Stawan, he had rendered invaluable service in the Stawan, he had rendered invaluable service for the service be was created a Civil Companion of the Bath, a rane honour in those days for a young Anglo Indian Civil Servant. He retired to the service in the service be was created a Civil Companion of all Indias So many misseding young Anglo Indian Civil Servant. He retired statements were made during the earliest from the service in 1883 after having honour Commons in the forties or fifties Mr Hume had, a distinguished career in the service. In his younger days when Collector and Magnetrate at Extend the had rendered invaluable service in quelling the Muthry in its incipient stage. For this service he was created a Cvil Courpainm of the Bath, a rane hour in those days for a young Anglo Indian Cvil Servant. He retired from the service in 1883 after having honour ably filled several high offices the last of which were the Hume Search strength of the Government the Hume Search strength of the Government. was the Home Secretaryaling of the Government of India
The policy of Lord Lyttons
Government (1878-80) had aroused discontent
in the country The imposition of the Ver dovernment (1879-89) nam aroused unconcerning the country. The imposition of the Vernacelar Press Act, commonly known as the Black Act, and the uncalled for hostilities with the Amir Shere All of Afghanistan which culminated in the Second Afghan War were the sabject of much adverse criticism among the most moderate but enlightened Indians in all the country. If were recommend in all parts of the country. It was recognised in all quarters that the people should organize them selves by way of a conference to ventilate their grievances. Correspondence was passing among leading to the contract of the cont the Indian leaders of thought in the different provinces as to the formation of such a conference on a sound and permanent footing. The viceroyalty of Lord lupon (1880-84) gave the necessary stimulus and encouragement. Thus by 1888, when Mr. Hume retaired the idea. of the Conference had so far taken body and of the Congressee had so far taken body and form that, with the sympathetic support of Mr. Home, a Union was established after he had in 1883 the genuine support of rany sterling friends of India in Padlament supechily John Bright and Mr. Stagg. Mr. Hume had been a attent but watching observer of events and talt that he must give his active support to the movement, his heart being fully prepared to the movement, his heart being fully prepared to are contract the social, economical and political condition of the Indiana. He was in close communication with the leaders in various provinces. Here it may also be worth while recording the fact that during the preliminary stage of the inception of the Congress, Mr Hume, who had retired to climits, had had the opportunity of consulting Lord Dufferin on the subject and it is a fact that his Lordship was at one with the officer, and greatly encour was at one with the object and greatly encour aged Mr Hume in his mission. Subsequently after 1888 his Lordship, for reasons of his own organisation but it was effectually met by the speech which it George Yule made in December 1888 at the Congress of Allahabad.

The Congress was practically founded in ference. Unfortunately when the prepara-1865 by the late Mr Allan Octavian Hume, a tions were being made cholers broke out in the statements were made during the earliest years of the Congress as to its slins and objects that it may be useful to relate what they are as laid down by Mr. Hume binuself in a speech he made at Albabad in 1883 on the eve of he made at Allahabad in 1883 on the eve of the session of the Fourth Congress at that centre Firstly he prefused his enumeration of the objects by stating that no movement in modern historical times has ever acquired in so abort a period, such an appreciable hold on the minds of India, none has ever promised such while reaching and beneficent results flutther on it was observed that the Congress movement is only one outcome though at the montent the most prominent and tengible of the labours of a body of outtured men mostly born natives of India, who some years ago banded themselves together to labour selectly for the good of India As to the fundamental principles of the Congress they are—

Firstly, the fusion into one national whole of all the different and discordant elements that constitute the population of India

Secondly the gradual regeneration along all lines, mental moral social and political of the nation thus evolved and

Thirdly the consolidation of muon between England and India by securing the modification of such of the conditions as may be unjust or injurious to the latter country

### The Split.

It was on the fundamental principles above stated that the Congress carried out its appointed work midst much interpresentation obloquy and even abuse till 1907 when an extreme faction of delegates deliberately chose to raise a split in the united camp At the Congress held in Surst in that year the session had to be abandoned owing to the violent outbreak of the factional spirit of those who since have been and lift. Hume in his mission. Subsequently the factional spirit of those who since have been after 1888 his Lordship, for reasons of his own which have never been authoritatively declared chose to assume a hostile attitude toward the organisation but it was effectually met by the but if the proceeding were for his time abanance hash at the Congress of Aliain bad.

First Session

First Session

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An analysis of the congress and total of the proceeding the process of fature congresses and total of the process of fature congresses and total of which the the progression of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress and total of which the congress. In other words, the unwritten sites and objects of the Congress were reduced to writing it a negative discussion of the Congress were reduced to writing it a negative discussion of the Congress was seen in the constant with the proceeding were not to be congressed and to the congress.

The objects of the Indian National Congress are the attainment by the people of Indus of a system of Government similar to that enjoyed by the self-governing members of the British Empire and a participation by them in the rights and responsibilities of the Empire on equal terms with those members Impire ou equal series with successful tutional means by bringing about a steady reform of the existing system of administration and by promoting national unity fostering public spirit and developing and organising the intellectual, moral, economic and industrial resources of the country

Every delegate to the National Congress is obliged by the Congress Committee of the province from which he is sent to express in writing his acceptances of the above creed and his willingness to abide by the Constitution and the rules framed under It.

#### The Constitution.

This Constitution has been in full working order since 1908. It is unalterable save by a Resolution of a majority in Congress assembled It provides a guiding or directing staff of chosen leaders selected by each province and amoually confirmed from the platform of the Congress by the President Ex Presidents Secretaries and the President Lix Presidents Secretaries and other office-bearers are nominated ex-office members and the whole Committee is known by the name of the All India Congress Com priese The provinces are the sarre as the territorial divisions of the Government of India The Committee of each Province is called the Provincial Congress Committee on came the Provincial Congress Committee on whom devolves the duty, under the constitu-tion and the rules of calling meetings for the election of delegates, suggesting subjects to be brought forward for the consideration of the The Congress Congress and all cognate matters. declares each year at the close of the session where the next Congress is to be held. The town or city where it is to be held begins to make all preparations fully six months before the date of the holding of the session which has hitherto invariably been during the three days immediately succeeding Christmas days Inmediately succeeding Christmas
Day That period is specially selected owing
to the great convenience it affords to all classes to the great convenience it affords to all classes of delegates in the country to attend—a convenience not offered at any other time during a year A Reception Committee is formed with a leading person as its Chairman That Committee divides its work among varous sub-committees such as finance, correspondence, housing, feeding and so on A hand of active young persons volunteer to serve the different sub-committees. Formerly they were chicking selected from among the they were chiefly selected from among the student class but owing to the orders of

be repeated here as it should dispet all doubts, centres on railway platforms and taking them misgivings or misunderstandings of the true down to their appointed lodgings. Volunteers are also posted among delegates to carry their are also posted among delegates to carry their messages or do such other work as may be needed. Thus they discharge toolorarily a very important service with enthusiasm and alsority and in a way learn discipline and the spirit of self-sacrifice. In his concluding address a President Invariebly makes honour able mention of the vervices of these Congress volunteers. The hardest work of a sub-committee consists of erecting the pendal or marques for the holding of the Congress Apart from the delegates who generally number from 500 as a minimum to 1 000 or so as a maximum there is always a large number of victors So that the penulal is erected to contain at least 5 000 seats. There have been some notable Congresses when the number seated notable Congresses when the number seated has come to as many as 10,000. That was the number which congregated in Bombay in 1839 when Sir William Wedderburn presided and was accompanied from London by the late Mr. Charles Bradlaugh who afterwards introduced th first Reform Bull of the expanded Legislative Councils in Parliament in 1890. Delegates had had to pay a fee of Rs 20 for attendance up till 1912 but the fee has time been reduced to Rs 15 They are observed a very moderate fee for the days they are lodged and boarded. Some well to do delegates hire bungalows at their own expense but the majo-rity of delegates outside those of the province where a congress is held contrally accept congress acrommodation which in smaller towns becomes a very serious and uphill task indeed. The supply of chairs and other para phernalia is also a heavy task but they all under take it choerfully as a matter of duty

### A Session.

The spectacular effect of a large gathering in a capital town like Bombay or Calcutta or Madras is exceedingly pleasing, while the audience is invariably well behaved. During she five hours a day of each of the three days proceedings, the stranger visiting the Congress, whether he is accommodated on the dais or the whether he is accommodated on the dais or the visitors gallery can bear every word of a mood speaker And generally the navillon is care-fully erected so as to allow the voice of the speaker to reach every part of it. Care also is taken that there are as many ingresses and oppeases as possible A special gallery is man-rally reserved for purish laddes who now-a days are keen to attend the congress and watch cays are arou to attent the collectes and watch the deliberations Compress expenses at the very lowest estimate come to between Rs. 25 000 and Rs. 30 000 per annum The tunds are collected (a) from donations of wealthy sympathisers of the Congress Movement in the province where the Congress is held, (b) from delegation fees half of which is shared by the London organisation of the Congress known student class but owing to the orders of the Congress known is student class but owing to the orders of the Education Department of the British Congress Committee and (c) from issue of visitors telesta All expenses that students should take no active part in politics, volunteers are now wholly required the circle of men of business or profession. They are well disciplined and have to obey the profession of their object or captain. They have a heavy duty to discharge during the active proceedings of the Congress together with a sheavy duty to discharge during the active proceedings of the Congress together. connection with the Congress which is the parent of the Industrial Conference They were all very successful the root notable being the one held in Bombay on the occasion of the Congress Meeting there in 1904

The most in portant function of the Reception Committee under the Constitution is to elicit the opinion of the different Provincial Congress Committees as to the selection of a capable President, a well known Congressants who has taken an active part from year to year in the work of the Congress, not only on the Congress platform but it his own part of the country by way of propagating the aims and objects of the Congress and educating the country by way of propagating the aims and objects of the Congress and educating the person of the Provincial Committees are enjoined to send the names of the person or persons whom they would select say by the end of September of each year to the Reception Committee of the place where the Congress to be held The name selected by the majority of that committee is accepted and is an ounced to all centres. The President Eliest receives official intimation of his selection and thereafter begins to prepare his Address reviewing the principal political events of the year and suggesting what important resolutions the Congress should pass. The President is always the homoured guest of the Beception Committee who provide a suitable ledging for him and cater for his conforts and convenience. He is waited upon by two or four volunteers who deem it a personal bonout to have so waited on him. On his arrival he is generally received with an ovation and a public demonstration in the form of a procession. There have been distinguished presidents who have been so conveyed to their destingation midst the most enthusiastic cheers of the population, men women and children.

On the opening day the President reaches the dals accompanied and followed by the Congress officers namely the General Secretaries, he focretaries and Chairmen of the Reception Committee and the experience who may be attending the Congress As soon as they are scated, a gong is heard to amounce the contramenement of the sessions the Chairmen of the Reception Committee begins the contramenement of the sessions. The Chairmen of the Reception Committee begins the proceedings by welcoming the delegates and touching upon the peculiarities of his city and on some provincial and other problems. Immediately thereafter the President is formally installed in the chair in terms of the Constitution. The chief proposer generally introduces him to the audience in a brief speech commerating what he is and what he has done for the country. Next the President rises in his place midst cheers and applains. Generally the speech is written and printed. It is read, the reading generally occupying an hour and a half. He surveys the prevailing political situation, echoes Indian public opinion as expressed in the various organs during the year of problems of administration and winds up with recommendations and suggestions for further reforms.

On the conclusion of the address a Subjecta Committee from among the delegates is selected and announced from the Chair Withle half at hour of an hour at the mosty-the Subjects Committee meet in a seconded part of the pendal, strangers and delegates not on the subjects Committee are requested to withdraw. The President becomes ex-officie the chairman of the Subjects Committee. Then they discuss the most in-portant topics needing resolutions to be passed the following day. Here you see Congress delegates earnestly at their work, it is a kind of select committee of the House of Commons. Debaters most eloquent debaters, are often to the fore and rake short speeches. A draft resolution is heaved, backed and eventually knocked hoto shape, votes being always taken by a show of hands, and the chairman announcing the ayes or the noes as the case may be in this way generally half a dozen important resolutions are passed. It is the duty of the Congress Secretaries to see that they immediately go to the press and are ready after correction and revision for the next day's session at noon. The general diuration of a Subjects Committee for two day in succession is fully three hour. Sometimes disputed or exceedingly controversial matters prolong it by another hour. Thus it will be seen that the real solid work of a Congress easelon is done at the meetings of the Subjects Committee which contains the pick of the delegates attending a Congress.

The proceedings of the session in open Congress are regulated by the rules of order and procedure adopted under the constitution Amendments are permitted to any delegate provided be given notice to the President on the data during the course of the particular resolution which may be roved Votes by a how of hands are taken for and against. There are rules for special voting but these are rarely invoked the fact being but these are rarely invoked the fact being but these are rarely invoked the fact being but the armony generally prevails owing to the merits of a resolution having been fully threshed out at the subjects Committee meeting. The puricipal speakers and supporter are all selected by the bublects Committee but a President may permit a speaker not named in the agerda. Generally speaking the speeches are medicore. But to die is abeent save in some cava. There is ample elequence and nine tenths of the speckers preparing their principal observations beforehand. But what is known as manuscript elequence. Is exceedingly rare. At the close of the proceedings generally on the evening of the third day the President is voted thanks and he makes a suitable replication to the held.

#### Results.

Of the oldest class of Congress men say since its institution in 1885 there are a few only say the Hon bis Mr Surendranath Baneri, the Hon Mr M M Malavya, the Hon Mr Ganga pressed Varma Mr D B Wacha, Mr P N Mudholkar Mr D A Khare and a few others The composition of the Congress endergoes a change every few years Looking back at the quarter of a centary and more, it must be acknowledged that on the whole the Congress has done good solid work for the greater progress of the people. In reality it is a body of Advanced Liberts' as Lord Lansdowne

called it when he was Viceroy in India. As such its programme is always for Liberal reforms. It cannot be gainsaid that the two reforms between 1885 and 1909 for the Legis lative Councils are principally owing to the continuous vigorous agitation of the Congress. The first reform took place in 1892 but it was also would be a few years that the twodiscovered in a few years that the popular elective representation was inadequate that there was no free discussion of the budget on the principle of taxation and representation, and that the privilege of interpellation given and that the privilege of interpellation given in 1892, needed improvement and expansion. The Morley Minto Betorms are entirely owing to the initiation and subsequent agitation of the Congress. It was also owing to the same organisation that the sait duty has eventually been reduced from 21 to Le 1 per maund. The higher limit of exemption from the in come tax was also recommended by the Congress It uniformly advocated the in portance of the construction of irrigation works in pre-ference to railways. Its strictures on the past management of famine relief have been instru mental in bringing the Famine Relief arrange mental in bringing the Famine Reifer arrangements almost to perfection. It is, again almost would overgo to Congress agitation that education of all kinds, especially primary and technical, have undergone an unprecedented development Haritation owes its present condition parties to the Congress. The hardships involved in the original drastic codes on excise and forests have been some what mitigated by reason of the camest prayers. After Congress. Land present eases. ers of the Congress. Land revenue assess ments have received continual attention from the Congress which is more or less in favour of a settlement as near to permaner cy as pos aible. But the voice of the Congress is still crying in the wilderness as far as simultaneous examinations and the separation of judicial and executive functions are concerned its agitation is consistent and perdistent its appeals on behalf of Indians in south Africa appears on behalf of Indians in South Afria and elsowhere have always been carnest and accompanied by moderation On currency problems it has hitherto failed to see eye to eye with the State. In short it may be correctly said that a fairly large number of grie vances of the people which the Congress has voiced during the last 28 years have been redressed. The principal plants of its platform for some time are a great extension of the employment of Indians in the higher offices of the control of the control of the control of the control of the control of the control of the second of the control of the of the administration in reference to which the Public Services Commission has taken the Public Services Commission has taken evidence retrenchment of military expenditure fiscal independence, notably in the matter of the excise duty on indigenous cotton manufactures reform in the administration of criminal justice, in which is included the separation of individual from executive functions and the equal privilege of Indians as oftheway of the British Empire in all parts of His Maiestry a Dominions. of Ris Majesty a Dominions

#### British Committee.

It may be observed in conclusion that the Congress has an organisation also in London which is called the British Committee of the which is called the British Committee of the Congress It is furnished with funds provided by the Indian National Congress. It has an establishment of its own and attached to it though with independent meome, an organ of opinion called India which echoes the sallent events of what may have happened every week in India As such its performs useful service. It is well informed and is liberally circulated among members of Parlia ment who sympathise with Irdian aspirations or take interest in the general progress and weight of India The Committee consists weller of India in Committee contains of redred Anglo Indians and has been for years presi ied over by that well wisher and disinterest-al friend of India, Sir William Wedderburn who was twice elected President of the Congress The Committee invariably invites distinguished or leading Indians when in London to take part in its deliberations The Committee it elf is in constant touch with all proceedings in the House of Commons on Indian affairs in the nouse of commons on Indian affairs and often helps frembers to put questions when faceded. Some years ago it formed a standing committee of members of the House standing committee of memoers of the house of commons and an attempt is about to be used to revive if The Committee also keeps fiscal in communication with the India Office and often acts are vehicle of conveying Indian and other acts as a venue of convering indust printed to the Secretary of State. As such the organisation renders valuable service to Indust cause in England. The 1915 16 sendon held in Sombay under the presidency of Sir S P Sinha one time Law Member of the Vice. IOV's Executive (onneil was largely attended and the proceedings were marked by much enthus dasm. The President whilst recogning that a masoned ideal, the self-dovernment within the Empire was necessary in order to still the pain in the soul of awakening India, ranked himself with those who saw that the path thither would be long and wearlsome. The congress em bodied its political aspirations in the following resolution —a) the introduction of Provincial autonomy including financial independence (b) expansion and reform of the Legislative Councils expansion and return of one negligible to age to make them truly and adequately representative of all sections of the people and to give them effective control over the act of the executive government (1) the re-construction of the various existing to cutive councils and the (atablishment of similar executive councils in provinces where they do not exist (d) the reform or the abolition of the Council of the Becretary of State for India (s) establishment of Legislative Councils in provinces where they of Legislative commiss in provinces where they do not now exist (f) the readjustment of the relations between the Secretary of State for Inuia and the Government of India and (y) a lib ral mea ure of local self givernment

## The Moslem League.

The Indian Mosiem League was established in 1906. Prior to that time the Indian Mosiems had stood aloof from politics. Acting under the guidance of the greatest man they have produced, Sir Syed Ahmed they devoted nave produced, Sir Syed Ahmed they devoted their attention to education, founding the Aligart College with the special purpose of making up the leavay of Mahomedans in edu cation, and left politics to the other Indian peoples A few Mahomedans joined the Na-iceal Congress and took part in its annual matters. sections but the community as a whole stood saids from political movements.

In 1906 however changes occurred which impelled Indian Moslems to action Under the Act of 1892, construting the Indian Legis lative Councils there was no specific Moslem representation and in the elections which had taken place under that act the Moslems had for all practical purposes failed to find selse-tion Theoretice, when the amendment of the Act and the extension of the representative principle were under discussion they were stared to action They feared lest under an academic system, adapted only to a homo geneous people their distinct communal in terests would either secure no representation. They therefore took counsel together and approached the Vicercy in deputation, headed by His Highmess the Age Khan and presented the trier views in an important Estate paper. In taken place under that Act the Moslems had their views in an important State paper. In this they laid stress on their position in the following passage -

'Rapresentative institutions of the European type are new to the Indian people-many of the most thoughtful members of our com munity in fact, consider that the greatest cars, forethought, and caution will be neces sary if they are to be successfully adapted to the social, religious and political conditions obtaining in India—and that in the absence of such care and caution their me abence of such care and caution their adoption is likely amongst other evits, to place our na teast interests at the disposal of an unsympathetic majority.

Feeling that the Mahomedans were a distinct community and that their interests had suffer ed because they had been under represented, the deputation asked for representation on a communal basis and for representation in excess of their actual nun erical strength or account of the peculiar and historical position of the Moslem community This request was accepted, and the Imperial and Provincial Councils embodied the principle of Mahomedan representation on a communal basis.

### First Constitution

It was left that in view of the changed con ditions the Moslems should organise their own political society for the expression of their communal policy. This was the origin of the Moslem League. The rules and regulations of the League provided for a constitution with provincial branches, and defined the objects of the League in the following language —

The objects of the League shall be—

(a) to promote among indian Musalmans reciting of keysity towards the Edition Gov annual session of the League was seeings of keysity towards the Edition Gov annual, and to remove any misconception was one for co-operation not for existence.

that may also as to the intentions of Govern-ment with regard to any of its measures (3) to protect the political and other rights and interests of Indian Musalmans and to

and Interests of Indian Musamans and to place their needs and asptrations before the Government in temperate language (c) without prejudice to the objects men-tioned under (a) and (b) of this section to promote so far as peacible ocucord and harmony netwees the Musamans and other communi-

ties of India.

Revised Constitution

In 1912 and 1913 Modem opinion as expressed by the League underwent a certain change. First at a meeting of the Council, afterwards at the annual section which was held at Lucknow the constitution was amended. so as to include in the objects of the League the attainment of a system of self govern-ment in India under the Crown The objects of the League, as defined in the most recent publication, are thus set forth —
The objects of the League shall be -

(a) to maintain and promote among the people of this country feelings of loyalty towards the British Crown

(b) to protect and advance the political and other rights and interests of the Indian Muselmana

(c) to promote idendship and union between Muselmans and other communities of India

(d) without detriment to the foregoing oblects attainment under the egis of the British Crown of a system of self-government suitable Crown of a system of self-government suitable to India, through constitutional mears, by bringing about, amongst others, a steady reform of the cutsting system of administration by promoting national unity by fostering public split among the people of India and by co-operating with other communities for the said purposes

This change in the constitution of the League produced much discussion and was opposed by irany of the older iron who had led the community

### London Branch

There is a branch of the Moslem League in London of which the Right Hon Syed Amir All is President. In the autumn of 1918 the London office bearers resigned, as the result of differences of opinior with two indian Moslems who were vinting England, Mr Mahomed Ali and Mr Vaster Khan the honorary secretary of the League Syed Amir Ali thus described the nature of these differences an endeavour to capture the organisation here and to impose on it their own will To both of these attempts I was, in the interests of the Mussulman community bound to take strong objection In response to strong pressure from the Provincial Leagues in India, the London office bearers resumed their posts and the London Branch of the League continues under the former personnel.

The beadquarters of the League are at Luck

The annual section of the League was not held in 1914, as it was thought that the season

### The Press.

The newtonner Press in Indus is an essen thally English institution and was introduced soon after the task of organising the admi nistration was seriously taken in hand by the Berglish in Bengal. In 1773 was passed the Rogulating Act creating the Governor General Regulating Act creating the Governor teneral ship and the Supreme Court in Bengal and within soven years at the end of the same de cade, the first newspaper was started in Cal cutta by an Englishman in January 1780 Exactly a century and a third has elapsed gince not a very long period certainly a period almost measured by the life of a single newspaper Table Trates which some into evidence. almost measured by the life of a single news, paper The Traise which came into existence only five years later in 1785 but then the period of British supremacy is not match longer having commenced at Planesy only twenty three years carller Bombay followed Cai cutta closely and Mañas did not lag much behind. In 1789 the first Bombay newspaper appeared. The Bombay Heraid followed not year by The Bombay Course: a paper now represented by the Times of India with which it was amalgamented in 1861. In Bombay which it was amalgamated in 1861. In Bombay the advent of the press may be said to have followed the British occupation of the Island much later than was the case in Calcutta. In Calcutta the English were on sufference before Plassey but in Bombay they were absolute masters after 1865 and it is somewhat strange that no Englishman should have thought of sartings newspaper during all those hundred and twenty five years before the actual advent of The Headt. of The Herald

of The Headd

The first newspaper was called The Bengal
Gazette which is better known from the name
of its founder as Hucky's Gazette or Journal.
Hicky like most ploneers had to suffer for his
enterprising spirit though the fault was entirely
his own, as he made his paper a medium of
publishing gross scandal and he and his pournal
disappeared from public vie in 1782 Several
journals rapidly followed Hicky s, though they
did not fortunetely copy its bed yample. The did not fortunately copy its bad (xample Indian Gozette had a carer of over half a contury when in 1833 it was merged into the Bengal Harkara which came into existence only a little later and both are now represented omy a mass sarer and note are now represented by The Indian Daily News with which they were amalgamated in 1886 No fewer than five papers followed in as many years the Bengul Gazetts of 1780 and one of these The Calcutta Gazette started in February 1784 under the avowed patronage of Government flour ishes still as the official gazette of the Bengal Government

From its commencement the press was jealously watched by the authorities who put serious restraints upon its independence and pursued a policy of discouragement and rigorous control Government objected to news of apparently the most irrival character affecting its sorvants. From 1°91 to 1799 several editors were deported to Europe with out trial and on short notice whilst several moors were consured and had to apologise At the commencement of the rule of Wellesley Government promulgated stringent rules for Government promulgated stringent rules for the public press and instituted an official consor to whom everything was to be submitted before publication, the penalty for offending against these rules to be immediate deportation. These

regulations continued in force till the time of

regulations continued in force till the time et the Macquis of Hastings who in 1818 sholished the consorbing and substituted milder rules. This change proved beneficial to the status of the press, for henceforward self-respecting and able men began slowly but steadily to join the ranks of journalism which had till then been considered a low profession silk Bucklingham one of the ablest and best known of Anglo-Indian journalists of those days availed himself of this comparative freedom to criticise the authorities and under the short administration of Adam a civilian who tem porarily occupied Hastings place, he was de-ported under rules apenally passed But Lord Amberst and still more Lord William Bentinek were persons of broad and liberal Definite were persons or broad and negral views and under them the press was left practically free though there existed curtain regulations which were not inforced though Lord Clare who was Governor of Bumbay from 1831 Chare who was to vernor or bonney min received the latter to enforce them Metcalle who succeeded for a brief period Bentinek removed even these regulations and brought about even these regulations and brought about what is called the remancipation of the press in India in 18°5 which was the beatning of a new era in the history of the Indian press among papers that came into being was the Bombay Times which was started towards the close of 1838 by the leading merhants of Bombay and which in 1801 changed its name to the Times of India The Bombay Greete founds in 1914. The liberal sulfit in which Intel Hastings

The liberal spirit in which Lord Hastings had begun to deal with the press led not only to the improvement in the tone and status of the Anglo-Indian press but also to the rise of the Native or Indian Press The first news paper in any Indian language was the Semarker Durpan started by the famous Scrampor Missionaries Ward, (arey and Marshman in 1818 in Bengall and it received encourage-1918 In Bengall and it received encouragement from Hastings who allowed it to circulate through the post office at one-fourth the usual rates. This was followed in 1822 by a purely native paper in Bombay called the Bombay Camachar which still exists and thus was lakl the foundation of the Nature Indian Press which at the present day is by far the largest part of the press in India numbering over 650 papers.

From 1835 to the Mutiny the press spread to other cities like Delhi Agra Gwalior and ven Labore whereas formerly it was chiefly condined to the Presidency towns During the Mutiny the freedom had to be temporarily controlled by the Gagging Act which Canning passed in June 185" on account of the license of a very few papers and owing still more to the fears of its circulating intelligence which might be prejudicial to public interest. The which the press was once more free

On India passing to the Crown in 1858 one of prosperity and progress opened for the whole country in which the press participated There were 19 Anglo-Indian papers at the beginning of this period in 1858 and 25 Native papers and the circulation of all was very small. The number of the former did not show a great rise in the next generation but the rise in in fluence and also circulation was satisfactory Famous journalists like Robert Knight, James Waclean and Hurris Mockey! flourished in this generation The Creit out Misseny Gazstis was originally published in Simhs as a weekly paper, the first issue being dated June 22nd, 1872. Prior to and in the days of the Mutiny He most famous paper in Northern India was the Mojurities originally published at fiverul but afterwards at Agra and then at Ambels. After a lively cristence for a few years in Simis the Cruit and Misseny Gazetts and in 18.6 the office of the paper was transcered from Simis to Labore and the Gazetts began to be published daily During Lord Lyttons viceoryalty a reactionary policy was pursued to viceroyalty a reactionary policy was pursued toviceroyalty a reactionary policy was pursued to-wards the vernacollar press which was res-trained by a special Act passed in 1878. With the advent of Lord Ripon in 1869. The special pressure of the third press specially gre-table very great, and its circulation too re-cieved a great fillip. This may be said to have gone on till 1897, when India entered upon a dimetrion even of verar during which placing a dimetrion even of verar during which placing

content which found exaggerated expression in the native press, both in the vernasoliar and in English The deterioration in the tone of a section of the press became acceptuated as years went on and prosecutions for sedition had little effect in checking the sinister influence.

In 1910 Lord Minto passed a Press Act ap-In 1910 Lord Minto passed a Press Act applicable not hise Lytton 8 Act, to the pecanic part alone but like Canning's measure, to the entire press This measure is having the desired effect maxmuch as it has undoubtedly other than the summar of the control of the Act has been to increase the influence and circulation of the moderate the influence and circulation of the moderate and the summar of the control of the Act has been to increase the influence and circulation of the moderate and the summar of the moderate of the Act has been to increase the influence and circulation of the moderate of the Act has been to increase the influence and circulation of the moderate of the Act has been to increase. papers. There is some tendency as in Eastern Bengal to evade the Act by the secret produc-tion and dissemination of seditions leaflets. A Paillamentary White Paper published at the a Parlamentary white raper profigure we the end of 1914 gives a return of statements showing the action taken under a rain sections of the 1910 Act. It shows that of twenty two printing presses coming under the first deutend for security fourt en falled to deposit the secu rity and were in consequence closed a disastrous evele of years during which plague twenty newspapers treated in the some manner and famine gave use to grave political distinguished can edpublication

Number of Printing Presses at Work and Number of Newspapers Periodicals and Books Published

	_	ı		Books		
Province	Printing Prosess	News papers	Periodi cals	In Fuglish or other European Languages	In Indian Languages (Vernacular and Clausical) or in 100re than one Language	
Bengal Bihar and Oriesa United Provinces Punjab (including Deihi) Yorth Wess Frontier Provin	604 121 497 206 23	106 19 152 73	10° 25 121 31 1	421 316 111	_ 21.9 	
Burma Central Provinces and Bera- Assam American Jerusta Coorg Madras	1 177 74 44 1 1 800		15 4 1 1 1 815	28 7 3 3	117 104 41 41 10 1 1883	
Bombay Total, 19	12 13 2,828		2 305	1 662	1 695 9 651	
19:	11-12 2 780 10-11 2 761 09-10 2 780	1 649	2 268 1 902 829	1 596 1 578 _ 112	9 988 10 063 9 994	
Totals {19	08-0 2 594 07-8 2 571	75	895 1 062	1 687 1 524	8 345 - 095	
19	06-7 2,490 05-6 2,80	74	973	1 589 1 411	8 126 7 6 14	
	04-5 2 252 03-4 2 139		747 719	1 321 1 294	7 023 ° 6 824	

# Rewapapers and News Agesties registered under the Press Raies and arranged alphabetically according to Station where they are published and attacked.

NOTE.-News Agenous are distinguished by an asterisk

Stations.	Title in fall	Day of going to Press.
Agra	Kayastha Hitkari	1st 6th, 16th, and 24th of every
	Ahmedabad Samachar Coronation Advertiser Gujarati Punch	Every day Wednesdays Sundays.
Ahmedabad	Jaine Samacher Kethlawer and Mahikanthe Gazette.	Sundays. Saturdays.
	Political Bhomiyo Praja Bandhu Rajasthan	Fhursdays. Saturdays. Fridays.
Ajmer Akola, Berar	Raiastan Samachar Berar Samachar	Thursdays Sundays.
Akyab	Arakan Times Arakan News	Mondays and Thursdays Tuesdays and Fridays.
Aligarh	Aligarh Institute Gasette	Wednesdays.
<u>Allahada</u> d	Abhyudaya Hindustan Review Leader Poincer Reuter's Telegram Company L	Fridaya On first of every month Daily except Tuesdays. Daily
Ammoti	Kartawys Pramod Sindhu Veer Shaio Sanjeevince	Tuesdays. Mondays. Mondays.
Amreli Amroha Bagerhat	Islam Gazette Ittihad Jagaran	Thursdaya Saturdaya Sundaya
Bangalore	Daily Post Army and Civil News Kasim ul Akhbar	Daily Daily Mondays and Thursdays.
Bankipore	Behar Bhandu Behar Herald Beharee Express	Fridays. Saturdays. Daily Tuesdays Thursdays and Saturdays.
Bartsal Bartola Battelon, Burma Battlealon (Ceylon) Belgsum	Barisal Hitalahi Shree Sayaji Vijaya Bamein Kewa Lamp Belgaum Samachar	Sundays. Thursdays Thursdays and Fridays. Every other Saturday Mondays.
Senares City	Awasai Khalk Bharat Jiwan Indian Student	Every Wednesday Sundays. 27th of each month.
Tinynegar Histo (Paina) History	Jainshasen Ittehad Karnatak Valbhay	Tuesdaya Wednesdaya. Saturdaya.

Stations	Title in full	Date of going to Press.
	Advocate of India Akhbar i Islam Akhbar i Boudagar Andhra Patalka Argus Associated Press Bombay Groardian Bombay Guardian Bombay Samachar Briton Catholic Examiner Gujarati Illustrated Sporting Review Indian Industries and Power Indian Investors Referee	Daily Daily Daily Daily except on Sundays Wednesdays.  Daily except Saturday Evening and Sunday Morning- Fridays Daily Daily except Saturdays Thursdays. Saturdays On the 15th of each month- Fridays
Вощ bay	Indian Social Reformer Indian Spectator Indian Spectator Indian Spectator and the Voice of India	Saturdays Fridays Fridays
	Indu Trakash Jauna Jama- Jamshed Jama- Jamshed Kaiser I Hind Muslim Herald Muslim Himes Native Oplaion O Anglo-Luaitano The Parsi Ballway Times Rast cottar Benter's Indian Journal Benter's Telegram Company Ltd Sanj Varkatuan Shrif Venkateshwar Samachar	Daily except Sundays. Fridays
	Times of India Times of India Illustrated Weekly Young India United Press Syndicate	Dally Wednesdays Weekly
Bowringpet Budgon	Kolar Gold Fields News Akhbor Zulqarnsin	Tuesdays 6th, 13th 20th and 27th of ever
Calengute (Qoa)	A Vor do Povo Al Hilal Amrita Bazar Patrika Aslam Aslam Associated Press Bangabasi Bengabes Bharata Mitra Calcutta Intelligence Syndicate Capital Catholic Herald of India	Saturdays. Daily Daily Fridays. Wednesdays. Daily except Sundays. Thursdays. Thursdays. Thosdays
Calcutta	Daink Hisbadi Empire (Calentia Evening News) Englishman Habid Makin Handicap Hindoo Patriot Hitabadi Indian and Eastern Engineer Indian Daily News Indian Empire Indian Empire Indian Empire	Daily except Wednesdays Daily except Sundays. Daily pacept Sundays. Fridays Daily except Saturdays. Wednesdays. 14th of each month. Daily except Sundays Fridays. Wednesdays and Saturdays Thursdays. Omce a month.

### The Press

Stations	Title in full	Day of going to Press
	Indian Methodist Times Indian Mirror Indian Nation Indian News Agency	Last day of month Daily Saturdays.
	Indian Pianters Gazette Indian Public Health Indo-British Press Agency Mussalman	Saturdays 15th of each month Thursdays
Calcutta	Railways and Shipping Ress and Rayyot Renters Telegram Company	2nd and 16th day of every month Saturdays
	Limited   Sanjibani   Suma   Statesman   Statesman   Statesman   Limes of India Illustrated Weekly   United Press Syndicate*	Wednesdays Wednesdays Dally except Sundays Wednesdays
	Manorama Kerala Sanchari	Fridava Wednesdays
ancut	West Coast Reformer	Sundays and Thursdays
	West Coast Spectator	Wednesdays and Saturdays
Сампроте	Azad Reuter's Telegram Company Li mited	Wednesdays
·m. I 1	( Даліапа	25th day of every munth
Thinsursh Thittagong	Education Gazette  Jyotl	Tuesdays Wednesdays
Jochla	Cochin Argus Malabar Herald	Returdays Saturdays
	Ocylon Catholic Messeng r Ocylon Independent Ceylon Morning Leader Ceylon Observer Ceylon Sportsman Ceylonese	Tneedays and Fridaye Daily Daily Daily Saturdays Daily
Colombo	Dinakara Prakash Dinamina Dravida Mitran	Mondays Tuesdays, Thursdays and Saturdays Daily except Sundays Wednesdays and Saturdays.
• • • • • • • • • • • • • • • • • • • •	Islam Mittiran Nanartha Pradipaya	Saturdays Mondays and Thursdays.
	Sarayavi Sandaresa Sihala Samaya Sihala Bauddhaya Times of Ceyion	Tuesdays and Fridays Yondays and Thursdays Saturdays Daily
Comila Outtack Contai	Hitavarta Utkal Deepica Nihaz	Wednesdavs Fridays Mondays
Daoca	Associated Press* Daces Gazetto Daces Prakash Rast Hersid	Mondays. Sundays. Thursdays and Sundays Daily

Stations	_	Title in full	Date of going to Press
Darjeeling	· ·	Darjeeling Visitor and Advertiser Associated Press	Mondays
Delli l	}	Durbar Bulletin Hamdard Indian News Agency	Daily Daily
		Morning Post Proneer Supplement	Daily except bundays
	<u>ر</u> ا	Dharwarvritt Kamataka Patra	Wednesdays Fridays
Dharwar	l	Kamatakavritta and Dhananjaya Kahema Samachar	Tuesdaya. Thursdays
Diruha Dibrugarh		Khandesh Valbhav Times of Assam	Fridays Fridays
Gaya Unntur Hubli		Kayastha Messenger Deshabimani Kannad Kesari	Sundays Dally Fridays
Hyderabad Deccan	ſ	Musheer i Deccan Sahifa-i Rozana Usman Gazette	Daily Daily Daily
Hyderabad Sind	ſ	9ind Journal Musafir Prabhat	Wednesdays. Saturdays Tuesdays and Fridays
Jaffua	1	Ceylon Patriot and Weekly Ad vertiser Jaffna Catholic Guardian	Tuesdays. Saturday Mornings.
Faffna (Vannarponnai)	,	Hindu Organ	Wednesdays.
Jubbulpord	}	India Sunday School Journal Jubbulpore Post	Third Thursday of every month Fridays
Kankhal		Karachi Argus	Wednesdays.
	1	Karachi Chronicle Parsi Sansat	Saturdays Saturdays
		Praja Mitra Phœnix	Tuesdays and Fridays. Tuesdays and Fridays.
Karachi	}	Reuter's Telegram Company Li mited. Daily Gazetto Sind Observer	Daily except Sundays. Wednesdays and Saturdays
	{	Sind Sudhar Star of India	Baturdays Saturdays
Khuina Koihapur City	Ī	Khuina Basi Vidyayilas	Saturdays Fridays
Kottayan	{	Malayala Manorama Nazrani Deepka	Wednesdays and Saturdays. Tuesdays,
Kurmegala		Abhinawa Kawate Angana	Days prior to the 1st and 15th of every month

498	The Press	
Stations.	Title in full	Day of going to Press.
	( Akhbar i Am	Daily
	Arya Patrika Associated Press Civil and Military Gazette Desh	Baturdays Daily (Sundays excepted) Daily
	Hindu Hindusten	Tuesdays. Wednesdays.
Lahore	Paiss Akhber Punjabee	Delly Tuesdays, Thursdays and Saton days.
	Punjab Observer Punjab Samachar	Wednesdays and Saturdays Fridays. 1st, 8th 16th and 24th of ever
	Rajput Gazette Sind Patrika	month Saturday
	Reuter's Telegram Company Limited Tribune	Dally except Sundays.
	Watan	Thursdays. Saturdays.
Larkeda	Larkana Gazette	Fridays.
	Advocate Anand Indian Daily Telegraph	Wednesdays and Saturdays Thursdays Daily
ateknow	Kankab-i Hind Kayastha Mutual Family Pensic Fund News.	Wednesdays 15th day of every month
	Muslim Gasette Oudh Akhbar Al-Maxmun	Tuesdays Daily except Sundays On the first of every month
	Andhra Patrika Angio-Indian	Tuesdays. Thursdays
	Associated Press Hindu—See against Mount Road	
	Indian Patriot Indian Railway Journal	Daily 15th of every month
	Jarida-i Rozgar Law Times	Saturdays Saturdays
Madra	Madras Mail New India	Daily Daily
	Madras Times Muhhammadan	Daily except Saturdays.  Mondays and Thursdays.
	Mukhbir i Deccan Renter's Telegram Company Limited	Wednesdays
	Shameul Akhbar	Mondays.
Madura Mapuca	South Indian Mali Futuro	Mondays. Daily
Maggao (Goa)	Noticles Ultramer	Mondays. Mondays and Fridays.

Stations.	_	Title in tall.	Day of going to Press.
Matheren Mattencheri		Matherau Jottings Chakravarthi	Tuesdays and Fridays. Saturdays.
Mirpurkhas	{	Mirpurkhas Gasette Zaminder Gasette	Wednesdays Thursdays
Mirzapur City	{	Khichri Samachar Al Musher	Saturdays 4th 11th 18th 25th of every month.
Morada bad	{	Colonel Meston Yews Sitara i Hind	lat 8th, 16th and 24th of every mouth 4th 12th, 90th and 28th of every mouth 4th 12th 37th and 28th of every mouth
Monimein		Moulmelo Advertiser	Tue-days, Thursdays and Satur
Mount Road, Madras		Hindu	Daily except Sundays
Museoorie	}	Echo Yuraoorie Times	Fridays. Thursdays
Muttra Muvattupuzha Mymensingh Nagercoll	·	Inniskilliner Kerala Dheepika Charu Mibir Travancoro Times	7th of each month Fridays, Tuesdays Tuesdays
Nagpur	{	Nagpur and Berar Times Desha-dewak	Fridays Mondays.
Ravsari		Independent	Saturdays
Nova Goa	[	Boletím do Comercio O Commercio Odebate	Wednesdays Daily Mondays.
Nova Gos	ĺ	Heraldo O Heraldo	Daily except Mondays Daily except Sundays and bolidays
Ootsesmund		South of India Observer and Vil	Daily issue except Sundays.
Pandharpur		Pandhari Mitra	Sundays
Panjim Gos. Pen		O Crente Sudhakar	Fridays. Fridays.
Peshawar	ſ	Aighan Renter's Telegram Company Limited	Daliy
		Deccan Herald Dynana Prakash	Daily Daily, except Mondays.
	- { .	Kesari Maharatta	Tuesdays Sundays
Poons.	1	Pandit Poons Mail	Daily and weekly on Wednesdays. Daily.
	{	Poons Observer Budharak or Reformer	Daily Mondays.

Stations		Title in full	Day of going to Press
Quetta		Baluchistan Gazetto	Wednesdays and Saturdays.
Quilon Rajkot		Malayali Kathlawar Times	Wednesdays and Saturdays Wednesdays and Sundays
Rangoon	ſ	Burma Sunday Times Rangoon Gazette	Sundays. Dally except Mondays
_	ι	Rangoon Times	Daily except Sundays
Ratosgiri	{	Bakool Satya Shodhak	Saturdays Sundays
Rawaipindi Vatara Vatara City		Punjab Times Shubha Suchaka Prakash	Saturdays and Wi-denedays Fridays. Wednewlays
Secunderabad	<b>{</b>	Hyderabad Bulletin Notice Spect	Daily Daily
Shabjahanpur Shikarpur (Sind)		Sarpunch Trade Advertiser (Waper Sama char)	Daily Saturdays
Shillong		Assan Advertiser	Fridav9
Bholapur	į	Kalpataru Sholapur Samachar	Sundava Turalaya
	İ	Associated Press Indian Yews Agency	
Steria		Indian War Cry News of India	27th of ea h month Wednesdays.
		Pioneer Daily Bulletin Renter's Telegram Company Limited	Week dave
Sakkur		Sindhi	Saturdays
Burst	}	Apakahapata Deshi Mitra Gujrat Mitra and Guj raj arpau	Saturdays Thursdays, Saturdays
	-	Praja Pokar Surat Akhbar	Wednesdays Sundays.
Sylhet Tamiuk Tangali		Paridaraska Tamalika Islam Rabi	Wednesdaya, Saturdays Fridays
Thems Trichur		Arunndoys Lokaprakasum	Sundays Mondays
Travalla Trivendrum		Kersla Taraks Western Star	Wedneedays. Tuesdays, Thursdays, and Satudays.
Viragapatam		East Coset Nows and Advertiser	Werkly
₩µl	{	Modavritta Vrittasar	Mondaya. Mondaya,
Yeotmai		Harikishore	Gundaya.

The Newspapers (Inchements to Offences) Act, 1906 was passed in view of the close commexion between the perpetration of outrages by means of explosives and the publication of criminal inotionents in certain newspapers. The Act deals only with incitements to murder to offences under the Explosive Substances Act 1908 and to acts of violence. It gives power in such cases to conflectate the printing press used in the production of the newspaper and to stop the lawful issue of the newspaper and to stop the lawful issue of the newspaper. The procedure adopted in the Act follows the general lines of that provided in the Code of Crimmal Procedure for dealing with public nuisances with the addition that the final order of the magistrate directing the forfeiture of the press is appealable to the High Court within 15 days. It is further provided that no action can be taken against a press save on the application of a Local Government Witen an order of forfeiture has been made by the magistrate but only in that case the Local Government is empowered to annul the declaration made by the printer and published of the gowgraper under the Press and Registration of Books Act, 186° and therewhich is the same in substance can be published without a brach of the law

The Indian Press Act 1910 was a measure of wider scope, the main object of which was to ensure that the Indian press generally should be kept within the limits of legitimate discussion.

The Act deals, not only with incitements to murder and nets of violence but also with other specified classes of published matter including any words or signs tending to seduce soldiers or sailors from their silegiance or duty to bring into hatred or contompt the British Government any hative Prince or any section of His Majerty a subjects in India, or to intimidate public servants or private Individuals.

The different sections of the Act have in view (i) Control over presses and means of publication (fi) control over publishers of newspapers (ii) control over the importation hat British India and the transmission by the post of objectionable matter (iv) the suppression of seditions or objectionable newspapers books or other ducuments wherever found

As regards the first of these objects it is Act. Find down that proprietors of printing presses has been making a declaration for the first time under without section 4 of the Press and Registration of Books security

Act, 1867 shall give security which may, however be dispensed with by the magistrate at his discretion that the proprietors of presses established before the passing of the Act may similarly be required to give security if and when they are guitty of printing objectionable matter of the description to which the Act applies and that where security has been deposited, Local Governments may declare such security forfeit where it appears to them that the press has been used for printing or publishing such objectionable matter. When the initial security se deposited has thus been forfeited the deposit of further security in a larger sum is required before a fresh declaration can be made under section 4 of the Press and Registration of Books Act and if thereafter the press is again used for printing or publishing objectionable matter the further security deposited and the press itself may be declared forfeit.

Control over publishers of newspapers the second mam object of the Act is provided for in a similar manner. The keeping of a printing press and the publishing of a newspaper without depositing recently when required are punishable with the penature prescribed for failure to make the declarations required by sections 4 and 5 of the Press and Registration of Books Act 1867

Other provisions deal with the cases of books or pamphiets printed out of India or secretly in India. The more efficient control over the importation and transmission by post of objectionable matter of the kind described in the Aot is given by empowering the customs and post office authorities to detain and examine packages suspected of containing such matter and to submit them for the orders of the Local Government

The fourth object of the Act is attained by authorising the Local Government to declare forfeit any newspaper book or other document which appears to it to contain matter of the prohibited description and upon such a decla ration the Act empowers the police to seize such articles and to search for the same

sum articles and to search for the same In any ase in which an order of forfeiture is passed by the Local Government an application may be made to the High Court on the question of fact whether the matter objected to so is not of the nature described in the Act. For the most part the object of the Act has been secured as regards the local pressibilities recours to the power of conflicating

### Societies: Literary, Scientific and Social.

ACRECULTURAL AND HONTICULTURAL SOCIETY OF INDIA (Calcin) Founded 1820.
Annual subscription Rs. 32. Entrance for
Rs. 8. Secretary, F H. Abbott 17 Allpore Bond. Alipore.

AREA-HORTSOULTURAL SOCIETY OF BURNAAccordany Capt W H Allen Victoria Park
Kandawgiay

AGEI-HORTICULTURAL SOCIETY OF MADRAS.-Established 1882 Quarterly subscription for members in Class A Rs. 7 in Class B Rs. 3. Secretor, F F Fyson Mount Road, Teynampett, S. W. Madras.

Teynampett, S. W. Madras.
ARTHROFOLOGICAL SOCIETY OF BOMBAY—
Founded 1888 to promote the prosecution of Anthropological research in India to correspond with Authropological Scolaties throughout the world to hold monthly meetings for reading and discussing papers. and to publish a periodical journal containing the transactions of the Society Annual Annual subscription Rs 10. Secretary, R P Kasani M A., Town Hall Bombay

ARATIO SOUREY OF BENGAL (Calcutta)—
Secretary G H Tipper M.A., 57 Park
Street, Calcutta
BOERAY ART SOUREY —Founded 1888 to

promote and encourage Art by exhibitions of Pictures and Applied Arts, and to assist in the establishment and maintenance of a permanent gallery for Pictures and other works of Art Annual exhibition every February Annual subscription Rs. 10 Life Nember Rs. 100 Secretary Prof. O V

Life Number Rs. 100 Secretary Prof. O V Medler M.A., Elphinstone College Bombay BOMBAY BRANCH OF THE CLASSICAL ASSOCIA TON—The Classical Association was started in 1903 in London, to promote the development and maintain the well being of classical studies. The Bombay Branch was founded in 1910 it numbers 137 members holds 5 or 6 meetings a year and publishes a yearly journal Subscription Rs 6 for ordinary journal Subscription Rs 6 for 0 and Rs. 2-8-0 for amodate members.

Sovery, Mrs Gray 13 Marine Lines Bombay BOMBAY BRANCH OF THE BOYAL ARIATIO SOCIETY —Founded 1804 to investigate and encourage Oriental Aria, Schemes and Likeencourage Oriental Arts Sciences and Literature Anneal subscription Rs. 50 Secretary, Froi. G. Anderson. Town Hall, Bombay Bombay Natural History Source of 1888, to promote the study of Natural History in all its branches. The Society has a membership of about 1 700 and a

small museum with a representative collec-

tion of the different vertebrates and invertebrates found in the Indian Empire and Ceylon. A Journal is published quarterly which contains articles on different natural history subjects as well as descriptions of new species and local lists of different orders. In the more recent numbers serial articles on game birds common snakes and common butterfiles have been appearing Annual subscription Rs. 16 Entrance fee, Rs 10 Honorony Sersetory W & Millard, Carofor N B kinnear Office and Museum 6 Apollo Street, Bombay

BRITISH AND FORSIGN BIBLE SOUTHY —
three 1811 the British and Foreign Bible
Society has been at work in this country It has 6 Auxiliance in India and an Agency in Burma The first Auxiliary was established in Calcutta in 1811 then followed hand in Calettia in 1811 then followed the Bombay Auxillary in 1820 the North Irdia Auxillary in 1865 the Punjab Auxillary in 1863 the Bangalore Auxiliary in 1875, whi Burma Agency was founded in 1899 while the Bible or some portion of it is now to be bad in 60 different Indian languages and dialects and the circulation throughout India and Burma reached over 1000 000 copies in 1915 The Bibles Testaments and For tions in the yearlous Vernaculars are sold at at considerable less to the Society Grants of English Scriptures are made to Students who pass the various University examina whose applications are countersigned by their Principals, as under -

The 4 Gospels and the Book of Acts in 1 Vol to Matriculates The New Testament and Psalms to Inter mediates

The Rible to Graduates.

Last year no fewer than 9 000 volumes were so distributed Portions of Scriptures in the so distributed Fortions of Scriptures in the important vernaculars have been prepared in raised type for the use of the Blind and large grants of money are annually given to the different Missions, to enable them to carry on Bible-women's work and Colportage Beddes the British and Foreign Bible Society

there is Bible work carried on in India, Assam there is Bible work carried and Burnas in a much smaller way by the Bible Translation Society—which is the Baptist Missionary connected with the Baptist Missionary Society—the American and Canadian Baptist Mission the National Bible Society of Scotland, and the Tranquebar Tamil Bible Society

The following table shows the growth in the British & Foreign Bible Society's work during the past few years in India & Burms —

CHROTILATION OF THE RPRS IN INVIA

Auxiliaries	1910	1912	1911	1910 123,899 188,907 250,273 28,309 143,681 71,842
Calcutta Bombay Madras Bangalore Forth India Punjab Burma	164,768 178 720 280 562 58,946 160,650 92 484 117 295	191 809 181 128 268 688 38 680 212,011 84,014 108 646	127 964 140 852 260 911 82,958 186,911 74,881 91 416	
Total copies of Scriptures	1 094 880	1 059,926	921,848	755 911

BESTIGH MEDICAL ASSOCIATION (Bombay BOMBAY Chowness, Mr L. H. Savile. Seems and the Missing Mr A W 8 Wise and the mainted DARJERDANG CORP. Mr H B. Irwin nance of the honour and interests of the Medical Profession. Secretary Dr D B. Bardi, Bombay

BORBAY MEDICAL Union -Founded 1883 to promote friendly intercourse and exchange of views and experiences between its members and to maintain the interest and status of the medical profession in Bombay The entrance fee for Resident members Rs. 5 monthly subscription Rs. 2. Absent mem monthly subscription is 2. Absent members yearly subscription is 6 Prevident Khan Bahadur Dr h H. Choksy Secretaries Dr D M Gagrat and Dr K K Dadachanil Dr M D D Gilder Hon. Librarian, Sir D M. Petit Medical Union Library Hon Treasurer Dr V M. Bhajekar Beadymoney Publisher Arollo Funder Persistency Buildings, Apollo Bunder Bombay

BOMBAY SANITARY ASSOCIATION -- Founded to create an educated public opinion with regard to sanitary matters in general (b) to diffuse the knowledge of sanitation and to diffuse the knowledge of sanitation and hygiene generally and of the prevention of the spread of disease amongst all classes of people by means of lectures, leaf-ste and practical demonstrations and if possible by holding classes and examinations (c) to promote sanitary science by giving prizes, rewards or medals to those who may by diligent application add to our knowledge in sanitary science by original research or otherwise (d) to arrange for homely talk or simple practical lectures for mothers and edits in the various localities and different girls in the various localities and different chawls, provided the people in such localities or chawls give facilities. The Sanitary Institute Building in Princers Street, which has lately been built by the Association at a as a rearry Be 1 00 000 the foundation at a cost of nearly Be 1 00 000 the foundation atone of which was laid by Lady Willingdon in March, 1914 and opened in March 1915 is a large and handsome structure with a large Lecture Hall Library Museum etc. and also provides accommodation for King George V Anti Tuberculosis League Dispensary and Museum and the Malaria Office and the Lady Willingdon Scheme Hon. Secretary Dr J A. Turner M.D. Municipal Health Officer Bombay

UBUPHAN ASSOCIATION — The European Association was established in 1893 under the title of the European and Angio-Indian REPRESENTATION AND ADDRESS OF THE PARTY OF T Defence Association and was re-established in 1912 under the title of the European Defence Association but the present title was adopted in 1913. The Association has for its objects the general protection of Euro-pean interests and the promotion of European welfare The Association numbers 3.870 The Head Offices are at Grosvenor House Calcutta Practical Mr L. P E Pugh. Secretary Mr Alec Marsh.

BRANCHES OF THE EUROPEAN ASSOCIATION ARIAM VALLEY, DIBLUGARE -Cholmen, Mr R. A. Collie. Secretary, Mr W Dorward. BREAR, MOSUPPERPORE.—Charman, Mr V N Bickley O. R. Secretary The Houble Mr T. R. Fligste, C.I.R.

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E St J Hickman. Secretary Mr R St. J
Hickman.

Hickman

UNITED PROVINCES CAWSPORE.—Chairman, Mr A B Shakespear C.I E. Socretary, Mr J G Ryan.

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE (Calentta) -Secretary Dr Amrita Ial Sirear 210 Bow Bezar Street Calcutta

ISDIAN MATHEMATICAL SOCIETY founded in 1907 for the advancement of Mathematical studies in India It conducts a bi monthly journal in which papers on mathematical sub-jects are published and maintains a library yeous are published and maintains a library with current mathematical periodicals in all languages and now books in the subject. The library is located in the Fergusson College, Pooms whence the Journals and books are circulated to members by post The Journal of the Society is published in Madras. There are about 150 members from all parts of India Powadani Diwan Rahadur R Ram india Presedent Diwan Bahadur R Ram chandra Row of Nellore Madras Services Prof D D Kapadia Poona and Prof M T Narandengar Bangalore Librarian Principal R P Parantoye Poons

INDIAN SOCIETY OF ORIENTAL ART (Calcutta.)

—Joint Sees and Treats N Bloomt and
B C Law P O Box No 8 Calcutta.

INDIA SUNDAY SCHOOL UNION —The India Sunday School Union is a large indigenous pathy and Co-operation of the greater number of Missionary Societies in India. The per of hissionary Societies in India. Itse great purposes of the Union are the promotion of systematic and careful Bible study, and the increased efficiency of Sanday Sobool in India. Its operations extend beyond the borders of India itself to Arabia Biam, Borneo and Assam Upwards of 650 000 Sunday School scholars and teachers and 13 044 Sharder Schoolars are connected with the 18,944 Sunday Schools are connected with the Union speaking 60 Vernaculars One Cortral and 40 Provincial Committees control its Indian work, which forms part of a world wide movement with a membership of 28,000 000

The India Union was founded in Allahabad The India Union was founded in Albababat in 1878 Veanty examinations are held for both teachers and scholars in 81 centres, for which medals, prizes, scripture awards and certificates are granted to successful candidates, upwards of 20,000 entered these Exams for 1918. Notes on the daily portions of the Interdenominational Bible Reading Association are published by the I 8 S U in English and 14 Vernsculars, and 50 editions of the 8.8

Lessen Expositions are published in 20 Lesson Expositions are published in 20 vernaculars. In addition there is a large publication of literature dealing with all phases of child study and moral and religious training. The monthly publication of the Union is the India Sunday School Journal Two whole time and twenty four part-time missioners are devoted to the work of Union The Teachers Training Department is under the care of Mr R A Annett. General Secretary of the Union the Ray R Burges India Sunday School Union Office

Jubbulnore

ADRAS FINE ABTS SOCIETY—Secretary Edgar Thurston Central Museum Madras MADRAS MADRAS LITERARY SOCIETY AND AUXILIARY

OF THE BOYAL ASIATIC SOCIETY - Secretary W F Grahame 1 C S College Road, Nup gambaukum

PHILATRILE SOCIETY OF INDIA - ALLIGNARIA Ra. 20 Secretary J Godinho INDIA -- Annual

PHOTOGRAPHIC SOCIETY OF INDIA (Calcutta)
—Annual subscription Rs 24 (fown Members) and Ra, 10 (Monussi members) Entrance foe Rs. 20 and Ra, 10 Seretary
A. K. Taylor 40 Chowringhee Road Calcutta

A. A. AND CONTRACT SOCIETY—Secretary
M. Hunter 13 York Road.
BANGOOD MUSICAL AND DRAWATIC SOCIETY
—Pounded 1900 Secretary Miss R. West Dalhousie Street, Rangoon

SHRVANTS OF INDIA SUCIETY -The Servents BEVAR'S OF LEDIA SUGHETY—The Servants of India Society which was founded by the late Hon ble Mr Gopal Krishna Gokhale, C.I.B., in 1905 has its Head quarters in Poona and its objects are "to train national missionaries for the service of India and to promote, by all constitutional means the true interests of the Indian people. Its government is vested in the First member or President and a Loundi On the death Mr Gorbale to Education and the Art. government in vested in the First member or President and a council On the death Mr Gothale in February 1915 the Hon ble Mir V 8 Sirilyass Bastri was elected President It has at present four branches, ser (1)in Bombay (2)in Madras, (3)in the United Provinces (4) in Central Provinces Each Branch consists of ordinary members mem bers under training and permanent assistants who work under the direction of a Benjar Mem ber The branches engage both in propagan dist and active work of political educational, social agricultural and philanthropic characters. ter A fair idea of the work of a branch can be had from a brief description of the operations . of the Bombay Branch whose members have so far undertaken activities in various fields so far undertaken activities in various fields (1) Social purity like the Holika Sammelan of Bombav (2) Social reform organization under the auspices of the National Social Conference (3) rousing public opinion about elementary education (1) promotion of the cause of elevation and education of Indian women by building up institutions like the Seva Sadan Poona Branch (5) Social Service as carried out by the Social Service League of Bombav (6) spread of co-opera-tive movement among the agriculturista compositions, and mill hands, (7) relief work connected with wide-spread calamities by organizing the Plague Relief Committee of Poons which succeeded in reaking inocula-tion popular in the Decementhe Salumbra Fire Relief Committee which arranged for the relief to sufferers for five years and by undertaking a scheme of non-official relief during the famines of 1907-08 and 1914 in the United Provinces, the famine in Gujarat and Kathlawar of 1911 12 and the famine of 1913 in the district of Ahmednagar organising public opinion on the question of Indians in South Africa

Quite recently the United Provinces Branch organised a band of volunteers who rendered assistance in a manner that drew general approbation to the pikrims at the last Kumbha Mela in Hardwar The Society engages in journalist! work also having in its control the Helarado an English weeky in Nagpur the Dayan Prakash a Marathi daily in Poons and the Hindustone an Urdu

weekly in Lucknow

The expenses incurred by the Central Home of the Society in Poons and its four branches exceed Rs 40 000 a year and this amount is made up by contributions from Indians rich as well as poor The present number of workers enlisted by the Society is about 20 most of whom are University men

of considerable standing

SHVA SADAK—The Seva Sadan Society was started on the 11th of July 1908 by the late Mr B M Malabart. It is the pioneer In dian ladies society for training Indian sisters ministrant and serving (through them) the poor the sick and the distressed. The society has a habitation in Gamdevi, Bombay One-half of the Building and Endowment Fund of Bs 82 000 has been spent mainly in build ing at Gamdevi and partly in the purchase of two seres of land at Sants Crus for a Sisters Home and other purposes

The Society maintains the following Institutions for training its probationers and for doing its other work 1 A home for the Homeless 2 An Industrial Home with various departments 3 A Shelter for the distressed 4 A Dispunsary for Women and Children 5 Ashrama (or Sisterhoods) 6 Free educational classes and a Library and Rea ding room 7 A Work class and Home Classes in the quarters of the poor All these are for the benefit of women. The Society has three branches one at Poons and another at Abmedabed and a third at Bangslore The expenditure annually incurred is a Rs 20 000 Secretary Miss B Engineer N.A. LLB Prendent Mrs Engineer M.A LL B Ranade Ramabal President Ahmrdabad Hamidoni indude tresperi and americana Branch Lady Chimbhai Madhavlai Presi dent Poona Branch Mrs Ranade Trea expers Bister Bushilabai and the Hobi Bu Mr Lalubhai Samaldas Trustees Sir Karayan Chandavarkar Sir Bhalchandra Erishna V D Thackersey the Hon Mr G K Parel h and the Hon Mr Lalubhai Samaidas, Cle

COMBUMPTIVES HOMB SOCIETY -This ORSUMPTIVES HOME SOCIETY—This Society was started by the late Mr B M Malabari on the Lat of June 1909 It was registered under Act XXI of 1860 It is an efficiency of the Beva Sadam Mr Malabarn scorred a large grant of land in a Himalay an pine forest in Dharupur (Simla Hills) from H H the Maharaja of Patials, for a Sandorium for Consumptives The Sanitorium was started on June 1 1909 and has been in acitence ever since. Mr Malahari collected an Endowment Fund of about Es 67 000 lodged with the Tressurer Charitable Endowments under Act VI of 1890 Yearly Rs. 70 000 more have been spent on buildings etc and the current annual expenditure is about Rs. 14 000 Dr Nanavati Ls & 8 and Bsc is in charge of the Sanitorium.

ROYAL SOCIETY OF ARTS INDIAN SECTION —
This Society was founded in London in the 18th Century its recently published history by Sir Henry Trueman Wood Secretary of the Society gives the following account of the Indian Section. In 1857 a proposition was made by Mr Hyde Clarks who wrote to the Council suggesting that a special section be formed for India, another for Australia, one for English America and so on It was suggested that the Indian Section should next once a fortalgist for the reading of papers. Nothing came of the suggestion until ten years later when Mr Hyde Clarks returned to Fugland, and in 1808 he renewed his proposal but only proposing the formation of a committee which should organise conferences on Indian subjects. This time the suggestion was taken up more warmly Mr Hyde Clark humself was blaced on the Council and the Indian Conferences which soon developed into the Indian Section, were sturted. The Indian Section thus established became a most important department of the Society it has had great results in India by spreading information as to the interestions which the development of Indian manufactures and Indian products could most usefully take and in England by giving similar in formation as to the industrial resources and Indian products could most usefully take and in England by giving similar in formation as to the industrial resources and it has in return been of service to the Indian press in supplying useful information to it it has been of great value to the Society its if us the means by which many members have been added to its list, so that in fact thanks to a very large extent to the work of the Indian Section and of the allied section for the Colonies a large proportion of the present number of members come from the dependencies of the Empire abroad Secretary Sir H T Wood 18 John Street

WEST OF INDIA ANGLING ASCOLATION Members of the Association who are fill in India, the head-quarters of the Association have been moved to Bombay and it is hoped that with the lass addition to the member ship which may be expected really practical work may be undertaken as soon as funds are available.

It is proposed to commence the publication of a mail Quarterly Journal at an early date which will be sent to all members free of cost and postage

The Entrance Fee is Rs 20 and the Annual Subscription Rs. 20 fation H E Lord Willington Prevident E Comber Hon Secretary C B Adamson Forbes Building Home Street Bombay

way in 1896 The aim of the Association is to meet the needs of the girls and women who live in India from an Intellectual Spiri is done in many ways in the 160 Associations that now flourish under the austices of the National Young Women-e Christian Amocia-tion The Associations in the big cities have a large membership and include all classes of the community Clubs Classes, Lectures, Study Courses Music, languages, Bible and Mission Study social intercourse and all kinds of physical recreation are carried on as need arises in these thy associations. Boarding Homes are established in all the principal cities where teachers nurses, business girls. students, apprentices etc can have a comfortable home with good wholesome food and congenial companionship for Ra. 20 or Rs. 30 per month. Travellers Aid work is done and many travellers especially in the port cities, find accommondation as they pass through A useful feature of the Association is the Holiday. Homes that are conducted in the bills, where girls from the plains can find inexpensive accommodation and regain health and strength Some of the homes accommodate as many as thirty six at one time and hundreds benefit during the season. The work of the Association in the large cities is managed by a staff of professional 1 W C A Secretaries, who are fully trained and equipped to meet the many demands that are made on them These Secretaries are supplied from America Britain Australia and India

Many of the Associations are in small up country stations where a handful of members constitute the Branch led by some lady in the station who is glad of the opportunity for service. The members of these small stations may be transferred in the ever-changing life of India into the larger cities and then they learn in a fuller way what the Association can do to help them in an all round development. The National Headquarters are in Bombay where the greater part of the National Committee is stationed. The inter denominational character of the Association is clearly kept in the forefront and ladies of many Christian denominations are on the Committee. The National Committee consists of twenty live members recident and non resident representative of Student and the Jepartment in various sections of the country

The Officers are Acting President Mrs. Elosz, Vice Presidents Mrs. F. J. Ciark, Miss A. M. B. Dobson Hon. Treasurer F. J. Ciark. Acting National General Secretary Miss Forence B Lang. The General Secretary Miss Forence B Lang. The General Secretaries of the principal places are Bombas Miss Whealdon Calcutta, Miss Rutherford Colombo Miss Anderson Rangoom Miss Hughes Madras, Miss Downey Bangalore, Miss Meager Karachi, Miss O'Brian Labore, Miss Generary Rangoom, Miss Gregory Sing, Secretary Luch now Miss Davies.

The National Office is in the British Foreign and Bible Seciety Building Horney Road Bombay The Official Organ of the Association is The Koung Woman of India," which has a situalities of over 2,000 copies monthly

Ye tree Mins's Currierian Association This Association which was founded by the late für George Williams on June 6 1844, seeks to unite those young men who regarding Jesus Christ as their God and Saviour according to the Holy Scriptures desire to be His disciples in their doctrine and in their life, and to associate their efforts for the extension of His kingdom among young men. The above is known as the Parls Basis of the Young Men Schristian Associations and it is world wide if was adopted at the first World's Convention in Parls in 1855 and re-affirmed at the Jubilee World's Convention in Parls in 1955 and re-affirmed at the Jubilee World's Convention in Parls in 1955 and creation in Parls in 1955 and the Association is through its religious edu extinual, and physical work to cater for the threetokis—spiritual, mental and physical—needs of young men and its policy is one of intense loyalty to the Church

There are as a rule, two classes of members any young man who is a member in full communion of any Protestant Christian Church may be an active or voting member and any young man of good character may be an associate.

The Young Men s Christian Association though relatively new to India is spreading Association very rapidly The local Associations are autonomous and governed by local Boards of Directors These Associations in convention elect a National Council of European and Indian laymen, who are responsible for the supervision and expansion of all forms of the Amountation work Both the National Coun oil and the local Associations employ specially trained full time Recretaries Over two-thirds of the Secretaries are supported from funds rebed in India and Ceylon. The remaining Secretaries are supported by the Associations of North America Australesia and Great Britain but their work is directed by com mittees in India to whom their services are loaned for the time being. The first paid Becretary came to India over twenty five years ago in response to an appeal from Madras Soon afterwards the National Council was organised, and has become incr easingly an indigenous institution There are now 10 Associations with 11 200

members Of these about one quarter are Europeans and three-quarters are Indians, of whom over half are non-Christians. The following Associations own one or more buildings which serve as the local headquarters.—Allanabad, 2. Bangalore 1, Alleppey 3. Bombay 4, Calcutta 6. Calcut, 11. Colmbatore 1. Colombo 1. Galle 1. Hyderabad 1. Jubbulpore 1. Karachi 1. Lahore 1., Madras 1. Mendalay 1. Maymyo 1. Rangor 1. Rain! Tal, 1. Rangoon 3. Secunderabad 1. Simila 1. In addition to buildings owned by the Association of the property of the support of the property of the support of t

haddition to buildings owned by the Assessation bupgalows have been rented to serve as beadquarters in the following stations—Ahmednagar 1, Allshabed, 1 Bangalore 2, Colombo 2 Delht, 1 Ferospors, 1 Rigerabad, 1 Janualyur 1, Jhanul 1 Jubbulpere 1 Labore 2 Lucknow 1

Madras 1, Madurs 1, Mhow, 1 Palamnottan 1 Multan 1 Poona, 1 Pudukettan 1 Rangoon 1 Trivandrum 1

The departments of the National Council are Railway Burai Literary Army High School Architectural and Physical. The Student Christian Association is additated to the National touncil and has branches in more than two score Colleges The Railway Depart ment is responsible for the Development of Associations amongst railway employes At Jamalpur the railway institute and Ap-prentices Engineers-Club are operated by the Y M. ( A The Rural Department is organising village Y M C A s and co-operative credit societies and promoting cottage in dustries. The Literary Department main tains three Secretaries.—J Y Faruthar for Hindulan K J Saunders for Buddhlem and H A Walter for Muhammedaniam The object of the department is to promote a proper and sympathetic understanding of the non Christian religions and show their relationship to Christianity. At the begin relationship to Unratianity At the begin ning of the war there were but three Army Associations and five Army Secretaries in the whole of India Now Association pri vieges are provided for British Proops in elabteen cantonments under the direction of thirty six Secretaries and Assistants Five Secretaries have been sent to organize Sol diere-Clube in Meropotamic and thirty eight Secretaries have been sent to serve the Indian Expeditionary Force A in Europe in addition to organising Y M. C A. s school boys the High School Department ar school boys the dight school between and high behool teachers The National Council employs its own architects who plan and employs he own analycets who plan and construct its buildings hostels and play grounds. The Physical Department spe-cialises on physical education and is pro-moting the playground movement.

The headquarters of the National Council is 86 College Street Calcutta The officers are

Patron —His Excellency Lord Hardinge of Penchurat Viceroy and Governor Gene ral of India

Chairman - Raja Sir Harnam Singh

Treasurer -- W R Gourley Esq 108, 8 Government Place Calcutta

Joint Treasurer - L. Robertson, Esq. 10 s.

General Secretaries -E C Carter A. C Harte K. T Paul.

The Bombsy Association now possesses four well-equipped buildings — Wodehouse Road, Lamington Road Rebach Street and Rey noids Boad The Prestient is Mr D M Inglis and the tieneral Secretary is Mr L G G Cranns. In connection with cach building there is a well inanaged hoatel one for Ango-Indian apprentices one for Indian students one primarity for European business men, and one for Indian Christians. The Ribon Hockey Tournament and the Conder Tennis Tournament are held senatedly under the suspices of the Bombsy Association

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## PRINCIPAL CLUBS IN INDIA

	B-4	D-1		script	ion		
Name of Club	Rata blished Club house		Ent An Mon		Mon thly	Secretary	
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ABBOITABAD		Abboliabad N W F	16		10	Capt P M Rumple	
ADYAR AGBA	1890 1863	Madras Agra Cantonment	75 50	12	4 7	F Buckney Major G H C Wilkly R G A	
AHMRDNAGAR	1889		3		10	Maj W Cortlan	
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BAREILLY	1883	Municipal Gardens	32		Ð	Capt W F F	
Jiaribal Barrackpur	1864 1850	Backerganj Barssal Grant Trunk Road 8 River blde	2 s 48		12 10	Major G D L Cha	
Basset	1881	Fytche Street 50 Ba.	ا آن	}	10	Comdr A Bamilton	
BELGAUM	1884	Close to Race Course	50		10	Lt Col J H Harle	
Benares Hungal	1827	38 Chowringhet Road Calcutta	-00	1	14 13	Wilmot C Dover Col. W Weallens	
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BYCULLA CALCUTTA	1833 1907	Bellasis Rd Bombas 13 Hussell Street	200 100	12	10	W P Pechey D Lindsay & S I ajendra Na Mookerje.	
CALCUITA TURF AWNPORM	1861 1844	19 Theatre Road Cawnport	150 50		1	J Rutcheson Lumbu Lannama	
CHAMBA CHIPTAGONG	1891	Dalhousie Punjab Pioneer Hill Chitta	50 50	1	14	Capt H R Hoods	
CLUB OF CENTRAL	1885	Scar a	50	1	1 8	Mill RLM Major Charles	
INDIA CLUB OF WESTERN INDIA	1865	Elphinstone Road,	200	1	6	lamman Major N Leslie	
COCHIN COCUNADA COSWRATORE	1876 1867 1868	Coconada Coimbatore	50 50 50	1	10 7	Frederic A Cox I H Deane E M Mose	
COUNCOR	1894	Coonoor Nilgiris	Je.		ه ا	L W Stoney C.I.E.	
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Hemalaya Juanni	1841 1867	Vert to Public Gar deas Thansi.	100		9-8	Major W Hallare	

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Madras	1881	Mount Road, Madras.	250	92	10	Captain W B, F Davidson	
Malabar Maynyo	1984 1901	Beach Road, Calicut	50 100	12 12	6 10	W O Wright.	
MOOLTAN NAIRT TAL	1892	Mocdan	30 100	12	12	Capt C B, Penton Capt. J O Nelson	
OOTAGANU VD	1840	Ootacamund Nilgiri	150	12	5	C A Mackensie	
ORIENT		Chaupatty Bombay	150	] 	6	Jehangir Dosabho; Framjee, ISO and AHASimcox, ICS	
PBGU PBSHAWAR	1871 1888	Prome Bd Rangoon Peshawar	1a0 32	12	10	Capt. B Stephenson Capt. I. M. Conwa: Poole	
Punjab Quetta	1979 1879	Upper Mall, Lahore Quetta	150 80		12 15	A B. Ross Redding.	
RASGOON GYMEHABA	18.4	Halpi Rd Rangoon Royal Lakas, Rangoon	75	6	7	W B. Clover R R. Ycomans.	
RANGOON BOAT CLUB RAJPUTANA BOYAL BOMBAY	1880 1880	Mount Abu Apollo Bunder	48 50 ≟30	48 18	3 8 8	Maj M P Corkery 6 C Plinston	
YACHT BATURDAY SECUEDERABAD BHILLONG	1883 1978	7 Wood St Calcutta. Secunderabad, Deccan Northbrook Boad Shillong.	100 50		8 12	G Herve, W C Clark. C H Holder	
SIALKOT		Sialkot Punjab	32		6	Capt G S Blvct	
Sind Trichinopoly Tuticorin	1871 1869 1885	Karachi Cantonment Tuticorin	200 50 50		6 9 8	J Humphrey C McC Conway H S. Northey	
UNITED SERVICE CLUB		Sımla Chutter Manzii Palace	200 50		8	Capt L.B. Vaughan G L Dawbiggin	
LUCKNOW Upper Burma Western India Turk	1889	PortDufferin Mandalay Bombay and Poons	50 50		8	E D Haffender  Ma) J E Hughe  absent on Militar	
Wheeler	1863	The Mall Meerut	J-U		9	Duty Ag Secretar J Reynolds Captain H Wattos	

## The Church in India.

In the ordinary acceptance of the term there is no established Church in India. An basis but they are exceptional. In all the Backelagical Batablashment is maintained for large centres there exist exholos of various primarily grades as well as orphanages for the education. Backesiastical Bistablishment is maintained for providing religious ministrations, primarily to British troops, secondarily to the European avivi officials of Government and their families force out of the eleven Angiliens Bishops in hodis are officers of the Establishment, though their episcopal jurisdiction far transcends the limits of the Ecclesiastical Establishment The stepends of the three Presidency Bishops are paid entirely by Government and they bold an official status which is clearly defined hold an official status which is clearly denned.
The Bishops of Labrice Lucknow Nagpur and Bangoon draw from Government the stipends of Benior Chaptains only but their episcopal rank and territorial titles are officially recognised. The Bishops of Orda Nagpur Tinnevally Madura Travancore, Gochin vally Madura Travancore, Cochin Dornakal and Assam are not on the establish ment The new Bishopric of Assam was created in 1915 In its relations with Clouders with in 1915. In its relations with Government it is subordinate to the see of Calcutta. But the maintenance of the Bishopric is met entirely from voluntary funds.

The occlesiastical establishment includes four denominations—Anglean Scottish, Roman and Weslevan Of these the first two and Wesleyan Of these the first two enjoy a distinctive position in that the Chap lains of those denominations (and in the case of the first-named the Bishops) are undiv de the intermed the Basiops, are murri-dually appointed by the Secretary of State and rank as gazetted officers of Government Throughout the Indian Empire there are 184 Angican and 18 Church of Scotland chapishs Angican and 18 Church of Scotland chaplains whose appointments have been confirmed. The authorities in India of the Roman Catholic receive block-grants from Government for the provision of clergy to minister to troops and others belonging to their respective denomin attors. The Wesleyan Methodiat Church has a staff of military chaplains in India who receive a fixed solutions for the Contract of the contract of a fixed salary from Government and 25 chaplains weeking on a capitation basis of payment by deverament. Churches of all four denomin attons may be built, furnished and repaired wholly or partly at Government expense.

In the Anglican Communion a movement in the Approxic Community a movement towards Synodical Covernment was making great progress when in the course of the year 1914, periods legal difficulties, we recommutered

So for as the European and Anglo-Indian of Christian totaminalities are concerned the activities of now close the Chesten are not confined to public worship and peakeral functions. The education of the moment as children of those communities is very largery to the heads of the Chesten decominations of the Tierra are a few institutions such as the La

of Europeans and Anglo-Indians under the control of various Christian bodies. The Roman Catholic Church is honourably dis-Roman Catholic Church is honourably dis-tinguished by much activity and financia generosity in this respect. Her schools are to be found throughout the length and breadth of the Indian Empire and they maintain a high standard of efficiency The Andican Church comes next, and the American Metho-dists have established some excellent schools in the lexer billattone. The Prochitation in the larger hill-stations for executent sources in the larger hill-stations. The Presbyterians are also well represented in this field perticularly by the admirable institution for deticate children at Kalimpong, near Danjeching Schools of all denominations receive liberal grants-in aid from Government, and are regularly in spected by the Education Departments of the various provinces. Thanks to the free operafrank recognition by Government, there is no religious difficulty in the schools of the European and Anglo-Indian communities,

## Christian Missions

The tradition that St. Thomas, the Apostle was the first Christian missionary in India is by no means improbable. History however carries us no further back than the airth can carries us no further back than the sixth century when a community of Christians is known to have existed in Malabar. Since then the so-called Syrian Church in south west India has had a continuous life. Except in its intency this Church (or rather these Churches for the Syrian Christians are now divided into four communions) has displayed little of the tour communions) has displayed little of the missionary spirit until quite recent times Western Christianity was first introduced into India by the Portuguese who established their hierarchy throughout their sphere of influence, Goa being the metropolitical see of the Indies. Bt Francis Xavier a Spaniard by race took full advantage of the Portuguese recent in Western Indies common to the Continuous and the course in Western Indies common to the Continuous and the course in Western Indies common to the Continuous and the course in Western Indies common to the Continuous and the power in Western India to carry on his Christian propaganda. His almost super human zeal was rewarded with much success but many of the fruits of his labour were lost with The Bishops were advised that their relations in the trivial of his labour were lost with the immany of the fruits of his labour were lost with the immany of the fruits of his labour were lost with the immany of the fruits of his labour were lost with the immany of the fruits of his labour were lost with the immany of the propagated in the 17th century that the Pr tians (the term throughout the article includes Anglicans) number 1638 781, an increase of 486 983 atince 1901. Thus the total number of Christians of all desonanations in India is now close on four millions. In fact it probably exceeds that figure at the present moment as these statistics are taken from the Census Report of 1911 and the rate of increase during the previous decade was nearly 100,000 per areas.

The Protestant Churches made no serious streams to evangeline India till the beginning of the nineteenth century. They have thus been at work in the Indian minim field for something over 100 years and the statistical results of their efforts are given above. It is tan missions are producing indirect effects in India wail 18 men and \$17 women the tan missions are producing indirect effects in India wail 18 men and \$17 women the tan missions are producing indirect effects in India wail 18 men and \$17 women the tan missions are producing indirect effects in India wail 18 men and \$17 women the tan missions are producing indirect effects in India wail 18 men and \$17 women the tan india wail 18 men and \$17 women the tan the india work of the indirect of religion. There has 18 indiantial institutions in which 50 different arts and orthogonal to the Vear Book of Musicous is 18 men and \$17 women the tan the indirect of religion. There are 184 industrial institutions in which 50 different arts and type-writing. In this department the Selvation Army hold a prominent place and the tangent of the total of elementary schools mostly situated in villages. This represents one nitro the findirect effect of all this philaubirropic of the total of elementary schools and scholars are the findirect effect of all this philaubirropic and the total of elementary schools and scholars are the findirect effect of all this philaubirropic and the total of elementary schools and scholars are the mission and the finding that the finding the first and the finding that the finding that the first and the f Protestant missions fill a considerable part in the elementary education of the country According to the Year Book of Mussions in India 1912 they are teaching 446 000 children in 19 204 elementary schools mostly strated in villages. This represents one ninth of the total of elementary schools and scholars throughout the Empire. The majority of children in these schools are non Christians. The same is true also of the high schools and in a still greater degree of the colleges. The former number 283 with 62 600 male and 8 400 former number 255 with 2 2 500 make and 3 400 female pupils There are 38 colleges affiliated to Universities containing 5 438 male and 61 female students. Of these as many as 5 241 are non-Christians. From the standpoint of missionary polloy much importance is attached to these agencies for the indirect propagation of the Christian faith. The statesman and the publicist are chiefly interested in the excellent moral effect produced by these institutions amongst the educated of the classes and the higher educational ideals maintained by their staffs The principal University colleges under Protectant auspices are the Madras Christian Follege the Dust College Calcutta the Wison College Bombay conlege calcutta the wilson college Bombay and the Foreman College Lahore. All these are maintained by Presbyterian societies either British or American The Roman Catholics have a large number of educational institutions ranging from small village schools. restricted and the state of the nan students in their institutions as very finite larger than in those of the Protestant hodies. The proportion of literates amongst native Roman Catholies is probably lower than amongst the Protestant converts but compared with Hindus and Mahomedans it is conspicuously higher. The Roman Catholies have some 8 000 elementary schools in which \$200 between and 4100 cities have seen and the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant of the second protestant beddes the second protestant of the second protestant beddes and secon ps coo boys and 41 cou girls are receiving instruction. In middle and high schools they have 143 coo boys and 73 coo girls and in Uni

The indirect effect of all this phisaptrropic activity under missionary auspices has been most marked. It has awakened the social consolence of the non Christian public and such movements as the Servants of India and the mission to the Depressed Classes are merely the outward and visible sign of a great stirring of the philanthropy spirit far beyond the sphere of Christian missonary operations

## **Anglican Missionary Societies**

The Church Missionary Society carries on work in India In seven different missions—the United Provinces, South India Travancier and Cocini, Bengal Western India, Punjab and Sind and the Central Provinces and Rajputana The names are in order of seniority Work was been in what are now called the United Proposition of the Company of the The Church Musionary Society carries on work organ in white are now called the United Pro-vinces in 1913, in the Punjab in 1951, and in the Central Provinces in 1854. The Society has always kept Evangelistic work well to the fore always kept Evangellatic work well to the fore but it also has important medical missions, especially on the N W Frontier and many achools of the Frimary Middle and High stan-dards. The Church of England Zomana Mis-sionary Society is an ofishoot of the O M 8 controlling the work of 162 missionary ladies. The number of ordained European missionaries of the O M 8 in India is 166 European agree 64 and European lay women 271. The Society claims a Christian community of 185000 of whom 52 000 are adult communicants.

Society for the propagation of the Gospel Statistics of the work of this Society are not easily ascertained as much of it is done through have some 8 000 elementary schools in which 98 000 boys and 41 000 grits are received are necessity are not of the work of the population. In middle and high schools they have 143 000 boys and 73 000 grits and in Unit proposed in the proposed of Europeans and Lurasians which will financed and proposed of Europeans and Lurasians who are an almost negligible quantity in Protestant missions schools and colleges.

More recent but producing even more wide-pread results is the Philanthropic work of Christian missions. Before the great families of 1878 missionsries confined themselves almost crecitaively to evangelists and end and existity. The families threw crowds of destitute people and orphan children upon their hands. Orphanages and industrial schools became an trigent necessity British population or method. A great Mission to Calcutta was started in 1890 Mission to Calcutta

It works in the postect parts of Calcutta and sho at Barisal. There are 11 mission priests of this Society and 18 fisters. In statistics to its work amongst the poor the All Saints Sisters of the Saints Sisters of the All Sain

## Bengal Ecclesiastical Department.

Letroy Most Reverend George Alfred D D

Lord Bishop of Calcutta and Metropolitan of India

SENTOR CHAPLAIRS

Stokee, Rev Oord George M.A. Scoroe, Rev O'ni George M.A.
Firminger Ven'die Waler Kelly m.a. B.D.
Scott, Rev Sydney B., M.A.
Stoart, Rev Robert William Hail B.A.
Smith, Bev Joseph Frank, B.A. A.K.C.
Koeling, Rev Ernest William Phillips B.A.
Drawbridge Rev W. H. M.A.

Menieman The Most Reverend Dr Brice 8.J

Services transferred to Punjab Archdeacon of Calcutta On combined have On combined leave St James, Calcutta On combined leave Services transferred to Bihar and Orasa.

And 11 Junior Chapleins

CHAPLAIRS OF THE CHURCH OF SCOTLARD Thomson Rev William N A

Gillan Bev D H McCaul Rev M W., B A. Presidency Senior Chaplain St Andrews, Calcutta On combined leave Officiating

Probationary Chaplain St Andrew s. Calcutta CHAPLAINS OF THE CHURCH OF ROME Archbishop

Reputtar of the Diocese

#### Carbery, Rev Fr Stanislaus, 8,3 Chaplain, Presidency Jail Bombay Ecclesiastical Department

Palmer Right Reverend Edwin James, M.A. Lord Bishop of Bombay Barbam, Rev C M. M.A. (on leave not 3 months from Archdeacon of Bombay and Bishop ! December) Commissar

Bowen, John Cuthbert Greneide

Kennelly Rov W J M. M.A. Coles, Rev A. H Heywood Rev Joshi, Rev D L King Rev 0 Rivington Rev C 8

Honorary Canona of Bombay Cathedral

### SECTION CHAPLAINS

Courtice Rev George Robert Aulton M.A B.S o Foote Rev Harold D'Alessio, Rev Edward Samuel John, B a deCoetlogon Rev Charles Evelyn Cambuldge M.A. Mould, Ray Horace

Canip Aden Ahmedahad On Juriough Homt Abu

Belgano

And 17 Junior Chaplains

CHAPLAINS OF THE CHURCH OF SCOTLAND

Matthew Rev John Cromble MA, BD. Benlor Presidency Chaplain

And 3 Junior Chaplains CHAPLAIRS OF THE CHURCE OF ROME

Jurgena The Very Rev H

Precidency

## Madras Ecclesiastical Department.

Whitehead, Right Reverend Henry DD Cox, Ven ble Lionel Edgar, M.A. Rowlandson, Frederic, B.A. LL.B.

Lord Bishop of Madras Archdeneon and Coranissary and Domestic Chaplain to the Lord Bishop Begistrar of the Dincese and Secretary to the Lord Bishop

#### SENIOR CHAPLAINS.

Breay Rev Christopher Francis, MA Bull, Rev. Edmund Glies, Rev Clement Donglas MA Welchman Rev Richard Herbert MA Myon Rev Hugh Hamilton A. Thomas Mount Ontacamumd On combined leave Coonside.
St John s, Bangelore,
Trichinopoly Hatchell, Rev Christopher Frederic Wellesley M.A. Heyeock, Rev Francia Wheaton M.A.

And 24 Junior Chaptains

CRUNCH OF SCOTLARD Presidency Senior Chaplain Ag Chaplain, t. Andrew's Church Secundershad. St. Andrew's Church Madias St. Andrew's Church, Bangalore Heron Rev John wa BD MeMrum, Rev Nell & & B D

Phillip Rev James Gibson Mitchell, Rev James Donald MA BD

Assam Ecclesiastical Department

Coverat, Rev N W P B a Kendrick Rev G V Lakhlupur Sibsagai McFarlant ROV WP BA Sile bar

## Bihar and Orissa Ecclesiastical Department

JUNIOR I HAPLAING

Drawbridge Rev William Hamilton x 4 Priest Rev Henry Green, Canon Arthur Daniel Payne Rev Bussell, M.A. Cosgrave Canon W Moore Rev H M. Spooner Rev Harold

Dinapole Bhagalpur Mongbyr and Jamalour Muzafterpur Renchl Bankipore

services placed at the disposal of the Government of India Arms Dept.

On combined leave

**Rurma Ecclesiastical Department** 

Fyffe The Right Reverond Rollestone Sterritt MA Lord Bishop of Engoon
Cory Ven ble Charles Page MA Archdescon and Bishop & Commissary

Blandford, Rev Henry Weare BA Collins Rev James Henry Seeley Rev George Henry Ellaby, Rev George Alfred, BA

DESCRIPTION OF HAPPAINS Маушуо On leave Hangoon Canforment. Sheebo

And 7 Junior Chaplains

## Central Provinces Ecclesiastical Department

Chatterton Right Reverend E D D Price Ven ble C. M

Lord Bishop of Nagpur Archdeacon, Nagpur

Parling, Rov C W MA Anutey Rev H C S MA Clarke Box W L. MA

SENIOR CHAPLAINS On combined leave Nastrabad. On combined leave

### And 14 Junior Chaplains North-West Frontier Ecclesiastical Department

SENIOR CHAPLAIN Campbell Rev R W BA Nowshern.

And 4 Junior Chaplains. Punjab Ecclesiastical Department.

Durrant, Right Reverend H B, M.A., DD Warlow The Ven ble Edmund John M.A. Ihsan Ullah The Ven ble

Lord Bishop of Punjab Lahore Archdescon (Simia)
Archdescon Lahore (Un-official)

Natah, Rev Henry Becker, Bev Charles Maxwell, M.A. Syme Bev James Greensill Skottowe, M.A. Brookes, Rev Johns Afred Rowland, M.A. Stanley, Rev Albert Edward, M.A. Stanley, Rev Walter M.A. Stewart, Rev Charles B.A.

Karachl. Murres (Further) Gaile. Labora Delhi Multen Ferozepur Hyderabad (Sind

SERIOR CHAPLAIRS

And 19 Junior Chaplains,

## United Provinces Ecclesiastical Department

Wescott, The Right Reverend George Herbert Chapman, The Ven ble Percy Hugh M & LL.D Pearson H G Bar at Law

Kirwan, Ray Robert Mansel M.A.

Bhaw Roy Walter Lillov Pritchatt, M A Johnson Rev Percy James Debenham, B A Oldham, Rev George Ernest, M A Canney Rev Duncan Arnold

Mendes Rev Henry M A

Lord Bishop of Lucknow Archdeacon of Lucknow Registrar of the Diocese of Lucknow

SENIOR CHAPLAINS

Pervices placed at the disposal of Covern ment Army Department. Roorkee

Cawnpore

Мимоотю Services placed at the disposal of the Govern-ment of Punjab

I ucknow

And 18 Junior Chaplains with 7 Additional Clergy

CHURCH OF SCOTLAND

Two Junior Chaplains

## THE ROMAN CATHOLIC CHURCH.

With regard to numbers, the Catholic Directory of India 1913 gives the following discrepant tables -

	Civil Census 1011	Ecclesiastical Estimate	
Latin rite	1 430 582	1 535 820	
British India {	41 / 142	864 660	
Total British India and P vs. States Burma Doylon	1 848 724 60 282 339 300	1 900 480 88 447 822 168	
Total India Burma and Ceylon	2,249 306	2 311 090	
French India Portuguese India		25 918 296 148	
Ecclesiastical Grand Total		2,663 156	

Total 2 53, 798

(1) The Syrian Christians of the Malabar Coast, traditionally said to have been converted by the Apostle St. Thomas They were brought under allegiance to the Pope by the Portuguese in 1899, and placed first under Jesult bibapes and then under Carmelite Vicars Apostolic They are at present ruled by four Vicars Apostolic of their own Syrian rite.

(2) Converts of the Portuguese imissionaries from 1800 and onwards starting from Goa

from 1500 and onwards starting from Goa and working in the south of the peninsula and up the west coast and in Coylon

- (8) Ruropean immigrants at all times, in cluding British troops.
- (4) Modern converts from Hinduism and Animism in recent mission centres

The Catholic community as thus existing is omposed of the following elements — 1,000 continued for about 200 years after (1) The Syrtan Christians of the Malabar which it began to decline 10 meet this decline fresh missionaries were sent out by the Congregation de propaganda fide till by the ruddle of the 19th century the whole country was divided out among them, except such portions as were occupied by the Goa clergy Honce arose a conflut of jurisdiction in many parts between the Portuguese clergy of the padroado or royal patronage and the propaganda clergy. This conflict was set at rest by the Concordat of 1886. At the same time the whole country was placed under a regular hierarchy which after subse-quent adjustments now stands as follows.—

Of the Portuguese Jurisdiction

The archbishopric of Goa (having some extension into British territory) with suffragan bishopries at Cochin Mylapore and Damaun (all three covering British terri torv)

#### Of the Propaganda Jurisdiction -

The archbishopric of Agra with suffragan bishoprics of Allahabad and Raiputana and the Prefecture Apoetolic of Bettish

The archbishopric of Bombay, with suffragan bishoprics of Poona, Mangalore and Trichinopoly

The archbishopric of Calcutta, with suffragan bishoprics of Dacca, and Krishnagar, and the Prefecture Apostolic of Assam

The archbishopric of Madras with auffragan bishopries of Hyderabad Vizagapatam and Nagpur

The archbishopric of Pondicherry (French) with suffragan bishoprics of Colmbatore and Kumbakonam.

The archbishopric of Simia with suffragan bishopric of Lahore and the Prefecture Apos tolle of Kashmere

The archbishopric of Colombo (Ceylon) with suffragan bishoprics at Kandy Galle Jaffna and Trincomplee

The archbishopric of Verapoly with suffragan blahopric of Outlon

Four Vicariates Apostolic of the Syriac rite for the Thomas Christians of Malabar

Three Vicariates Apostolic of Burma.

The European clergy engaged in India almost all belong to religious orders congregations or mission seminaries and with a few excep-tions are either F ench, Belgian Dutch Ger man, Spanish or Italian by nationality They number about 1 000 besides which there is a body of socular clergy mostly native to the country numbering about 2,000 and prob-ably about 2,000 nuns. The first work of the clergy is parochial ministration to existing Christia is incl.ding railway people and British troops Scound comes a cration which is not confined to their own people their schools being frequented by large numbers of Hindus, Mahomedons Partis, etc. Among the most important institutions are St Xavier's Conference of the Confer College, Calcutta, St. Peter's College Agra, St. Kavler's College Bombay St. Joseph S. College Bombay St. Joseph St. College Bombay St. College Bombay St. Joseph St. College Bombay St. College Bombay St. College Bombay Trickinopoly bt. tkysdis College Mangalore, teaching university courses beddes a large number of high schools and elementary schools. The aducation of girls is supplied for by numerous convent schools worked by Tellstons congregations of nuns to say bottling of orphanages and other charlable institutions. The total number under education amounted in 1904 to 143 051 boys and 73 184 girls, later figures being unavailable.

As to missionary work proper the country is covered with numerous mission centres, among which those in Chota Nagpur Guierat Orista the Vizam's Dominions the Ahmed bagar district and the Telugu coasts may be mentioned (Full particulars on all points will be found in the Catholic Directory already you be found in the Carnone Directory already guoted.) The mission work is limited solely by shortager over and money which is forthcoming would give the means to an indefinite extension. The resources of the clarry after the ordinary church collections and pay of a few military and rallway chaplaincles pay of a few military and rainway companions are geries mainly from Europe that is, from the collections of the Society for the Prapagation of the Fault and of the Holy Childhood helped out by private or other donations secured from home by the different local missions. secured from home by the different local missionaries. In mix lon work the fathers count as fincilled only those who are baptised and persecuting as Christians and no baptism, except for infante or at point of death, is administered except after careful instruction and probation. This, while keeping down the record has the advantage of guaranteeing solid results.

## THE SCOTTISH CHURCHES

THE CAURCH OF SCOTLAND—The Chaplaince | Mhow and Quetta. The additional energy work of the Church of Scotland dates from secretics in India cantelbut, towards the cost in 1814, when the Rev Dr Bryce landed of this additional establishment in other in Calcutta and organised a congregation places such as Stalkot Murra Dalbousic, of his Scottish fellow countrymen Since Darjeeling and Lahore regular services are 1963 there have been sighteen chaplains on the provided by Scottish Missionaries Simils has staff of whom nine belong to the Bengal Presidency five to Bombay and four to Madras These minister both to the Scottlah troops and to the civil population of the towns where they are stationed but when there is a Scottish regiment the chaptain is attached to the regiment instead of being posted to the station where the regiment happens to be placed and as a rule move with the regiment. There are three Presidency senior Chaplains in charge of Bengal Bombay and Madras respectively. There are churches in the chief towns of the Presidencies and Churches have also been resuspenses and Chulces have also be built or are being built in all considerable military stations eg Chakrata. Lucknow, Peshawar Ranikhet Rawalpholi Blakot and Umballa In addition to the regular establish

· minister of its own sent out from Scotland

The Mission work of the Church of Scotland dates from 1829 when Alexander Duff one of the greatest of modern missionaries, was sent to talcutta. He was the first to open schools where English was made the medium for instruction and where religious teaching was given daily Similar educational missions were soon afterwards started in Bombay and Mailta. Educational work is still an import. Ant branch of the mission work of the Church, but the Bombay College was closed in 1891, and in 180° the College in Calcutta was united with the College in the United Free Church of Scotland to form the Calcutta Christian Callon. College In the Punjab Evangelistic work Unballa In addition to the regular establishment there are a number of acting Chaplains seventeen missionaries. The baptised Christent out by the Colonial Committee of the Church of Sectional and there are serving in such stations as Rawalplud Cawnpore Morut

Tubblia In addition to the regular establish is being carried on from eight centres under seventeen missionaries. The baptised Christent Church of Sectional and there are serving in work commenced in Darjeeting in 1870 is such stations as Rawalplud Cawnpore Morut

Testion Himshown district, and there is a ed at Howrah in the district of the mile, and Consisting community there of over six every effort is made to minister to the Scottish thousand. In the five mission districts of enumeers and other workers in the milia. thousand. In the five mission districts of Calcutta, the Eastern Himslayas, Madras, Pouss, and the Punjab there were at the end of 1911 over 19,500 baptised Indian Christians. In connection with these missions the Women a Association of Foreign Missions does invaluable service m school, medical and mesans work having in India 48 Baropean missionsistes, 145 teachers, over 50 schools, 1897ee boundals and air dispensation. three hospitals and six dispensaries

The Church of Scotland has also done much to provide education for European edition in India. Together with the United Free Church St Andrew's Church provides the governing body of the Bombay boottlish High Schools which have always held a high High Schools which have always hote a nign-place among such institutions and exercises perforal supervision over the Bombay Scottish Orphanage in Bangalore there is the St Andrew's High School, and both in Bangalore a school for poor children. The new well s school for poor children. The now well known 8t Andrews Colonial Homes at Kahin pong, Bengal, though not directly part of the work of the Church of Scotland were initiated by and are being locally managed by Mission gains of that Church The hours exact for the benefit of the domicaled lyuropean Com musity, and are doing magnificent work. There are now fifteen cottages, and 437 children in residence

THE UNITED FREE CHURCH OF SOCIETED -

The Mission work of the Church is extended and varied It is carried on in all centres in Bengal in Santalia with five stations. in Bengal in Bengal in Santain with nive stations, in Western India, including Bombay Bombay districts, Poons and Jains and Bethel in the Nisam's Dominions in Madras with four stations in the Central Provinces including Nagpur Nagpur District, Bhandara, Wartha and Amirsott and in Rajputana where since 1860 missions have been established in eleven districts.

There are at work in these centres 212 Scotch missionaries together with a native staff of are 39 comprising 4 521 communicant members and representing a Christian community of 12545 Of schools there are 324 with 756 (ashers and 1386) scholars. A larg. part of this work is organised and apported by the women of the Church who have sout out as many as 84 of these massionaries In connection with the medical work of the mission there are 19 hos prints where in the year 448 931 out-part its and \$560 in patients are upsated all of whom are brought under (invitation intertain fraction). There are four great dissense, Colleges. There is the Madury (invitation College with 700 indients, which reached its great success under the wise leader-lup of the Rev Dr William Miller and which is now contributed to by five other Missionary Nonettia as well as that of the United Bree Church Representatives of these Missions which include the United Bree Church Representatives of these Wesleyan Missionary Society st upon the College Board. There is the Scottish Christian THE UNITED FREE CHURCH OF SUCHIAND—
This breamed of the Southsh Church has no built of the two purely European congregations in India two purely European congregations in India two purely European congregations on the two purely European congregations on the two purely European to the two two purely European and the fin Bombay Wandley Road As noted above to purely a superior to the two purely that the Established Church of Sordland in providing odmeation for Furopean children and the Histop College at Nagpur with 27 students, and the Wilson College in Boundary with 27 students, and the Wilson College in Bombay with In Calcutta a second congregation is maintain | ,01 students

#### BAPTIST

Tan English Baptist Missionary Socialy

-Formed in 1792 largely through the efforts
of Dr. Wm. Carey, operates mainly in Bengal,
Blast the United Provinces and the Panjab,
with a staff of 79 missionaries and about 800 Indian workers. Connected with the Society are 167 Indian Churches 223 Day Schools, 13 Doarding Schools, and 5 Theingleah Intrinsing Colleges. The Church membership at the close of 1912 stood at 11 009 and the Christian Com pumily at 81,473 In the methods of the Society, the chief place is given to Baxaar and Society, the chief place is given to barrake and Williage practing. Increase in membership during the past ten years, about 30 per cent, and in the Community 50 per cent for the same period. Amongst the non-caste people great progress has been made in recent years, and churches formed from amongst these peoples. are self supporting

Special work amongst students is carried on in Calcutta, Dacca Bankspore, Cuttank and Deltal where Hostels have been erected for the prosecution of thus form of work

EDUCATIONAL WORK—Ranges from Primary of native preschers.

School to Colleges Scrampore College, the Suly College in India able to bestew a theo Churches connected with the Society has logical degree granted under Royal Charter Ragish Services are carried on in many of the

#### SOCIETIES

by His Danish Majosty in 1827 and confirmed by the British Government in the Treaty of by the British Government in the Treaty of purchase of the Settlement of Serampore in 1845 and placed in 1856 by the College Council at the disposal of the Baptist Missionary Society to become a part of its Missionary Educational operations Arts and Theological it was sublicted in 1857 to the neatly formed Calcutta University reorganised in 1910 on the lines of its original Boundation with the approximent of a qualified Theory tion with the appointment of a qualified Theological Staff on an Interdenominational busis for the granting of Theological Degrees qualified students of all Churches,

As the only College in India granting a Theo logical Degree a large number of students are now resident in the splendid College Buildings In Arts, the College properts for the Calcutta Arts Examinations Principal Rev G Howells, MA BD R.LETT PH D

A Vernacular Theological Institute, and High School likewise attaches to Serampore as also at Delin and Cuttack, for the training of native preschers.

stations where an Ruropean population obtains. Medical Work connected with the Scalety reported 2 Hospitals, 7 Dispensaries, 401 in patients and 78 645 out patients for the year 1912. Two large Printing Presses for both English and Vormscular work are conducted at Calcutta and Daces

WOMEN'S MISSIONARY AUXILIARY B.M.S. Extends over the same area practically as the above there are 7.5 missionaries 336 Indian Workers 102 Cirls Day Schools, and 5 Cirls Boarding Schools in connection with this work 751 villages are visited annually by Teachers and 751 villages are visited annually by Teachers and Missionaries engaged in Gospel Work A large place is given to medical work 5 Hospitals with qualified staffs and 12 Dispensaries provicing for 1004 in patients and 98 54 out patients or the past year. The Indian General Secretary of the Women a Missionary Auxiliary of the Eaght Missionary Jouety to Miss Angus 44 Lower Circular Boad Calcutta.

THE CANALIAN BAPTIST MISSION -WILL COM menced in 1873 and is located in the East ern Telugu District to the north of Madras, in the Austra Godavari Viragapatan, and tennjam Districts there are 22 stations and 122 out stations with a staif of 88 ms journes including 5 qualified physicians and so fulian workers with Gospil preaching in villages Organised Churches number 64 communicants 9 482 and a liarents 13 800 for the past year. Nino Churches are entirely self-supporting. In the Churches are entarely sorten proving a note below at long the burners are 26 village. Dur schools with 6 502 children 8 Boarding schools, 2 High schools, a Normal Training school a Theological Ferminary providing in all for 691 pupils, and an Industrial school. There are 5 Hospitals and two her asylmer publishes a Telugun ewpaper. Villag, Frangeli sation is the great feature of the Mission and stress is laid upon the work among t wom n and children in particular. During the last decade membership has increased by 71 per out the thristian (omnumity by 90 per out and scholars by 376 per cent The bullan Menctary by the Re A A Scott Funl, codusari iя tlu Нь v District

THE AMERICAN BAPTIST TELUOU MISSION

Was commenced in the year 1838 and covers
large parts of Nellore Gimeur Kistina and
Kurnos' Districts and parts of the Decema
Its male work is evangelism, but there is large
Ridurational and Maddal, most in addition Educational and Medical work in addition There is an English Church in Madras A large industrial Yerakala settlement is carried on at Kavall under the therge of one of the missionaries Organized Letigu Churches, number 133 with 68 8.0 baptised communicants There has been a net increase or 1 000 per annum for the past twenty years There are 126 Missionaries and 1671 Indian Workers There is a large Theological Seminary at Ramapatnam for the training of Indian preachers and a Bible Behools to Vibukonds, for training Bible Women Melon House Mymendingh In ordinary educational work 801 day schools 20 Boarding Schools and 4 High Schools give training to 18 577 scholars In Medical work Wand the Trichy District Of Hospitals report 1,501 in patients and 19,583 unmber 120 organized Churches 4 number 120 organized Churches 4 out-patients for the year

Corresponding Secretary Prof. L. E Martin Angole, Guntur District.

AKERICAN BAPTIST FORMER MISSION SO-CIBYN organized in 1814 has Missions in Buring begun 1814 Assam 1836 Bengal and Origin 1836 South India 1840. It owes its rise to be celebrated Adoniran Judson, Until 1910 the Society was known as the American Baptist in Burme 1 in Assam 9 in Lengal and Origan 20 in South India begides hundreds of outstations. All forms of missionary enterprise come within the scope of the Society.

The missionary staff numbers 195 in all with an Indian workers staff of 4,964. Communicants number 14 7676 Organised Churches number 1,318 of which 860 are self. supporting Educational work is conducted on a large scale the total number of schools on a large scar the total number of somoons of all grades being 1 848 with over 58 000 pupils. There are 8 High Schools with 3 18. pupils.

Medical work embraces 12 Hospitals and 20 Dispressive. During 1918 the unmber of out patients treated was 60 0 to and in patients 1 784

The great work of the Mission continues to be vangelistic and the training of the native preachers and Rible women and extends to many rates and languages the most important of which in Burm has been the practical transfernation of the karens whose language has been reduced to writing by the Mission. The work in Assam embraces 9 different langu ages and large efforts are made amongst the amployers on the tea plantations. The Mission employers on the test paramounts. The missass of the form of the largest and fluest to Burma The American Baptist, Feingn Mission and the American Baptist, Buan Orusea mission are branches of the aliote

Assam Secretary Rev Judson Tuttle, Gaubatl **Аьваті** 

Buenta Secretary Rev H J Marshall Tharry waddy Burma

Bengal and Orasa Secretary Rev Howard Murphy M.D. Midnapore Bengal

South India (or Telaga) Secretary Rev W A. Stanton D D Kurnool Kurnool District 8 Indla

THE TARMANIAN BAPTIST MISSION -With mineier uten a established of Branche. E Bengai

Rev E T Thompson Mission Secretary House biragunge

THE AUSTRALIAN BOARD OF BAPTIST FOREIGN Missions - Embracing the societies represent ing the Bupti is of the States of the Australian Commonwealth In field of operations is in heat Bensal The staff numbers 6 Australian workers there are 1 461 communicants and a Christian community or \$ 8.0

Secretary Field Council Roy Hedley Sutton,

THE STRICT BAPTIST MISSION—Has 10 Missionaries and 86 Indian Workers in Madras, We and the Trichy District Communicants number 120 organised Churches 4 Elementary schools 25 with 1,200 pupils.

Secretary Rev E. A. Booth Kilpauk, Mad-

AMERICAN BAPTIST RESCAL-CRISCA MISSION commenced in 1886 area of operation, Midna pore and Balasore districts of Lower Bengal, Mission staff 29 Indian workers 204. One Engists Church and 24 Vermeenker Churches, Christian Community 5 000 One hespital and two dispensaries Educational One Theolo

gical and one High School, and 180 Elementary giou and one high school, and 100 Memeriary schools, pupils 4,880 Two Industrial schools for weaving and carpentering, &t. The Verna, cular Press of this mission printed the first literature in the Santail Language Verteary Rev Howard R. Murphy M.D. Минарого

## PRESBYTERIAN SOCIETIES

The Irish Presbyzerian Church Mission -Operates in Gujerat and Kathiawar with a staff of \$7 Missionaries of whom 4 are qualified doc tors and so Indian staff of \$60 including school teachers. There are 25 Organised Churches. a communicant roll of 1,569 and a Christian community of 5,772 In Medical work there are 2 munity of 5,772 in medical work there are 2 Heapitals, 5 Dispensaries with 1011 in patients and 22,171 out patients. The Mission conducts J. High schools, 8 Anglo-vernacular schools and 184 vernacular schools affording tuition for 6 3ol pupils, 5 Orphanges a Divinity College at Ahmedabed A Teachers Training College for men, a Teachers Training College for women both at Ahmedubad and a Mission Press at Suret The Mission has made a speciality of faint colonies of which there are about a score in connection with it most of them thriving

The Jungle Tribes Mission with 3 missionaries is a branch of the activities of the above work ing in the Panch Mahala and Rewa hantha districts with farm colonies attached

Secretary Rev E R Johnson, B & Mission House Threedabad

THE UNITED PRESENTERIAN CHEREI OF N AMERICA -Sialkot Mission was retablished in 1856 operating in the extreme North of the Punjab and is practically the only Mission working amongst the 9374 cities and villages of that district Its missionaries number indian workers 18 There are 60 premi There are 60 organised congregations with 499 outstations a member ship of 12807 and a thristian community of 61 064. Women's Societies number 2.) A theological seminary and a college 4 high schools 7 middle schools 2 manstrial school 2 230 primary schools containing in all 12 .1 pupils In medical work there are 4 nospitals and 7 dispensaries with 1 6-b in patients and 55 476 out-patients for 1914

10. Marsaill Cutranvala.

Secretary Rev R Marwell (njranvala,

THE AMERICAN PRESBYTHRIAN MISSION operates in 3 main sections known a the Punjah North India and Western India Missions. The American Staff numbers 191 and Indian Staff 1098 3 Christaan Codegee students 109 2 Theological Institutions students 76 16 High Behools pupils 1025 4 Industrial 4chools 6 Teachers Training Departments 36 Media 4 Students at Miraj 309 Elementary School 308 Schools of all grades pupils 13,224 Mcdi Cal Work 7 Hoppitals 12 Disponsaries 4, 48 In patients 148 308 out patients visits Sunday schools 400 with 12 227 Sunday Schools pupit.

Contributions for church and evangelistic work. on the part of the Indian Church, Es 18,623)
Total Indian contributions for all purposes in cluding educational and Medical fees and grants
Bz 4 25 843

The Hospital at Miraj under the care of Dr. W. J. Wanless and Dr. C. E. Vall is well known throughout the whole of S. W. India and the borman Christian College at Labore under the principalahip of Rev. J. C. E. Ewing, D. D. C. L. L. sequality will known and valued in the Pranjab. The Allahabad Christian College (D. L. A. R. Isanykar Principal is growing rapidly and the inchanical and agricultural departments have become in resamply perminent Wandordeck College for Women at Musacorrie Principal Miss. A. Mitchell M.D. is one of the largest and most viduable in titutions of the largest and most various and description in Northern India

Ser tray of Committed A I Massons in India R v H D | riskyld Ph D D D Sabaranpur S result fungab Mission Rev E It Luca Lahre

Secretary Noth Index Vission Buy R 1 unith Fatehour Haske

Sertien Bistern Indian Meisten Bev H (I If award Lodola 5 M (

THE VEW ZEALAND PRESENTERIAN MISSION Commenced as recently as 1910 at Jagadhri Punjab

Secretary Miss A E Henderson Jagadhri

The Canadian Presentence Mission—Commenced to 1877 has 11 main Stations in the Indoor Gwalior Butlam Dhar Alirajpur Inora Situmini Banswara at Native States— The Miston stati numbers, O Indian workers ov r 228 Organized Churches 13 Communicant (Sixtember 10 1014 1715) 1 118 Baptised non-communicants 1 816 Unbaptised infants and catechinera 114 Educational work comprises Elementary and Middle Schools High Schools for boxs and girls College Theological Seminary and Classes Industrial teaching and work at done in three Carls Orghanage on the Wom as Industrial Home and at Rosal pura which last includes the Mission Press and the School for the blind. The Medical

work I large chieff, among women

Secretary Rev J Frager (ampbell DD)
Rutiam ( J

THE HERMAN EVANGRIJCAL SYNOD OF NURTH AMERICA Commenced work in the CP in 1865 The mission stuff numbers 23 Indian Christian workers 310 (comminicants 1815) total Christian community 4 608 Organised Churches to one Theological school with 10 studiets one High School with 90 students and 64 other schools with 3 956 students. The mission has 2 Hospitals and 6 Dispensaries which in 1914 treated 18,013 patients secretary Rev F A Goetsch Bisrampur

THE WELSE CALVINISTIC METHODIST MISSION 188 WHESH CAPVINISTIC METHODIST AIRSIOT, (OR WEISH PERSHTERIAN MESHOR) cete-bushed in 1840 with a staff of 37 Mission aries, 511 Native workers occupies statious in Assam in the Khassis and Jaintis Hills the Lushai Hills and at Sylhet and Cachar The Khassis language has been reduced to writing Khassia language has been reduced to writing the Bible translated and many books pub-

lished in that language by the Mission Com-occupies the Arcot and Chittor districts in municants number 9 516 the total Christian S india with a staff of 29 Missionaries, and community 30 000, organised Churches 391 504 Indian inhisters and worker. Churches self-supporting Churches 30 Elementary number 19 Communicants 3,995 total Christohols number 407 scholars 10 168 Board plan community 11 298 Boarding schools Interest in scholar 19 Elements 529 Theological school 1 students Industrial school 4 Training metitutions and 37 High schools 4 scholar 1219 Training 1 Theological Seminary One Hospital and schools — students 44 Industrial schools Dispensaries provided for 6 911 patients 20 pupils 95 Elements 7 Dispensaries with 50 per 19 patients 7 Dispensaries with 50 per 19 patients 7 Dispensaries with 50 per 19 patients 7 Dispensaries with 50 per 19 patients 7 Dispensaries with 50 per 19 patients 80 per 19 patients

## CONGREGATIONAL SOCIETIES

THE AMERICAN BOARD OF COMMISSIONERS FOR PORLIGH MISSIONS.—Has two large Missions the American Marathi Vission and the Madura The Marathi Mission includes a large Mission The Markott shasson lucinairs a large purt of the Bombay Presidency with contres at Bombay Ahmednagar Satara and Molapur was commenced in 181° the first Arw musa Mission in India. Its activities are large and varied The staff at the beginning of 1916 consisted of 48 missionaries and 46. Indian workers operating in 164 outstations exclusive of Hombay City Organized Church a number 6. with 7 841 communicants and 6138 adherents Place is a Leper work at Sholapur The Edu cutional work embrars 21 Boarding school with 400 pupils 1... ordinary schools with 5 371 hop, and girls under instruction three fifths of whom are non Christian. A large Fluological Seminary at Ahmednagur trains for the Indian Ministry Amana work and Indus trial work ar vigorously carried on the latter (m) racing (arpentry metal lammering lace work carpet waving and extensive work on an improved hand been. A school for the blind 1- conducted on both Educational and Industrial Hus 4.081 patients were treated in the Hospitals and Dispussifies of the Mission last year. The Mission has for 70 years published the Drysnodaya the only combined lengths. and Marathi Christian weekly newspaper Special vangelistic work is carri d on among t the tribes known as the Bhills and Mangs This Mission was the first to translate the Chris tian scriptures into the Marathi tor gue

THE MADURA MISSION—In the 8 Madra District commenced in 1834 has a staff of 49 missionaries and 810 Indian workers, operates in the Madura and Bannad district and has a mmunicant roll of 7 954 with 23 93" adherent. and 55 prastised churches many of which and 35 marison continues and sell governing are entirely will-supporting and sell governing Schools number 462 with 12 819 pupils. There is a Christian College at Madura as also Hos is a Christian College at Madura as also Mos-pitals for men and women at Pasumalai are a Theological Institution, Industrial School Feachers Training School and Printing Press. The Secretary of the Marathi Mission is the Rev 4 H Clark thunchingar and of the Madura Mission the Rev C S vanghan Manamadura

The Arcot Mission commenced under the American Board was transferred to the Re formed Church of America in 1851.

one in Bengal and the other in khandesh total mission staff is represented by 11 missionaries and .7 Indian workers Communicants and a Christian community of 50 A Boarding School 1 Industrial School and 11 Elementary Schools provide for 150 pupils

Secretaries Rev U A Dahlgren Navapur Khandesh und Miss H Abrahamson Domar Lengal The Branch in Khandesh co-operates with the Swedish Allianer Missien, and both missions having a united yearly conference

THE SWEDISH ALLIAVOT MISSION - Working among the Bhils in West Klandesh has 14 musiknaries and 26 Indian workers. There are a churches with a total membership of 4.0 of whom 213 are communicants. There are o Elementary schools one Boarding School and one Industrial School the pupils are 00

Secretary Rev. ( A llock Nandurbar We Et Khundesh

THE SCANDINAVIAN ALLIANOE MISSION HIMA LAYAS - (Finnish Branch) The total mission staff is represented by nine missionarics and six nativo workers Titere are about 80 communicants five churches and a Christian community of nve churches and a Unitation community of about 110 One Orphanage with 23 orphana one Kindergarten school one Lepter Primary school and three Day Schools with about 70 pupils Acting Secretary Vies Klara Hertz Lach u sea tiangtok Sikkim THE LONDON MISSIOVARY SUCJETY ----Com-menced work in India in 1.28 and occupies 10 centre in Vicilia 12 Levi I. Colinguis 2.10

centres in N India 12 in 8 India and 7 in Travancore The Mission engages in every torm of Missionsery activity The European staff numbers 223 Indian workers 2,004 Organised Chirches 400 Communicants 18 748 and Christian community 118,575
There are 4 Christian Colleges students 159 Communicante There are a Christian Colleges Students 10 a Theological Institutions students 41 Training Institutions pupils 114 22 High schools pupils 148 2. Bearding schools supplie 484 2. Bearding schools scholars, 1167 9 Industrial schools pupils 110 and 86. Elementary schools with 35 775 scholars In Medical work Hospitals number 15 Dispensaties 15 qualified ductors 10 and J 997 in patients and 130 220 out patients for the year

The main centres of the Mission in N India are at Calcutta, Benares and Almora The Bhowani American Board was transferred to the Be formed Church of America in 1851.

The Scandinavias Alexande Mission of Branches

NORTH AMERICA.—Embraces two Branches

Branches Hountal and Leyer Asylum. Special efforts are reads amongst the Harma Sudras and the aboration the Earna Sudras and the aboration thrown as the Majiwars. Cheens and Pankas Thue S india district is divided into the Kanaroso. Telugu and Tamii areas, with 13 visitions and 470 cutstations At Nagaroso. The Calculta Survey of the Calculta Survey of with 984 students, a Church and congregation

#### ALL INDIA MISSIONS.

THE CHRISTIAN AND MISSIONARY ALLIANCE! -Dates from the year 1893 under the name of the India Missionary Alliance but a number of its missionaries were at work in Berar Province much carller The work is Berar Province much carrier The work is confined to the provinces of Berar Khandesh and Gujerat There is a staff of 7.2 mission aries and 7.5 Indian workers The number of Mission stations is 20 with additional outsta tions There are 4 orphanages 2 for boys and 2 for girls 3 training schools for Indian workers and I English congregation at Bhu-awal Scre-

THE CHURCH OF THE BRETHREN (AMERICAN) -Opened work in 1895 and operates in the Southern part of Gujerat Khandesh and Thana Districts Its staff numbers 29 includ ing missionaries wives and 105 Indian workers The baptised (immersed) membership stan is at 1 120 education is carried on in 2 Girls Board ing schools 4 Boarding schools for boys and structured with four of the schools and a Farm Colony is cetablished at Umballa

THE POORA AND INDIAN VILLAGE MISSION-Founded in 1893 operates in the Poons Satara and Sholapur Dustricts with 23 European and and Sholapur Destricts with 23 European and SI Indian workers. The number of Indian Christians is 40. The main work is evangelism of the villages with Women's Zenana work and Village schools fibere are a village Dispensaries, including a large in dical work in the great pfigringse city of Pandharpur and a hospital at the head-quarters of the Mission, Navrapuri in the Bhor State. Servicing Mr J W Stothard, Navrapur Poona Instruct

THE AMERICAN CHURCHES OF GOD MISSION -Has two missionaries at Bogra Bengal THE INDIAN CHRISTIAN MISSION-Pound ed in 1895 has 31 Organised Churches 11 Missionaries 88 villago riations 1 070 Com numiconaries and 29 Primary a hook in the Ellore district, 8 India, Stations also in Berenag Kumaon N India, and Nuwara Ellya, Ceylon Secretary A S Pavuter Nuwara Ellya,

ATC 3 PENTECOSTAL MISSIONS There are a PENTHOUSIAL MISSIONS at work. The Penteenstal Mission in W. khan desh and Thana Districts the Penteeostal Church of the Nazarine Mission at Buldana, Berar and the Penteeost Bands of the Wolld Mission with a Boys Orphanage at Dond Lohara, C. P. and a Girh Orphanage at Rej Kandgaon, headquarters

THE INDUSTRIAL EVANGELISTIC MISSION-A sea industrial hardening in 18810r.

B emanded mainly with orphan children and owns its rise to the famines of 1897 and 1900. It numbers shout 120 Christians in all stations, the principal of which is Debra Dum. Director Passor J C Lawson, Debra Dum.

THE SANAPPUR AND LOHAGHAT DISTRICT BUBLE AND MEDICAL MISSION-Was established Billio And Jahresh mission—was established to Lohaghat, 48 fulles from Almore, in 1910 Amongst the faith missions are the Vanguard Mission at Sanjan Thana District with 6 Missionarios and the Church of God Mission with 7 Missionaries at Labore. The Burning Bash Mission has a staff of 8 Missionaries at Allahabad The Tehm Border Village Mission is the only Christian enterprise in the Himalayan Nativo State of that name its agents are statuoned at Landour and have translated portions of the Yew Testament into the Telin Carhwali Language

THE HUPHRIBAR FAITH MISSIONARY ASSOCIA TION has all misaionarles Agert I) W Zook Adra B N Ry

THE TIBETAN MISSION-Has 5 Missions des with headquarters at Darreling, and Pibet as its objective Secretary Miss J For

guson Darjeeling
The Indian Missionapy Society of Tinne VLLLEY (DORNABAL MISSION)-Opened in 1904 operates in the Warangal District of the Airam s Dominions It is the missionary effort of the Tamil Christians of Tinnevelly There are

Mr J Anbudaivan BA LT Palamoottah.
THE MISSION TO LEPERS - Lounded in 1874 is an interdenonmational and international Society for the establishment and main tenance of Asylums for Lepois and Homes for their untainted children working largely in India thing, and Japan Its work in India is terried on through co-operation with 29 Mis loanty Scoreties. The Mission now has 40 Anylums of its own with over 3 500 inmates, and is sidiling of has some councetion with work for lepers at 20 other places in India. In the Mission's own and aided Asylums there are about 3 100 Christians The total number of lepers reached by the Mission in India is about

An important feature of the work of the Mission is the segregation of the untainted or highly children of lepens from their diseased parents 500 children are thus being segre-

parents 600 children are thus being segic-usted and saved from becoming lepers.

The Vission very largely relies on voluntary contributions for its support. Patroness The Downger Duchess of Dufferin and Ava. Print dest. The Frimate of Ireland. Head Offict. 8. North Bridge Edinburgh Mr. Welesley C. Ball, y. General Superintendent. Organising Journals Mr. John Jackson, FR.9.8. 33 Secretary or India Mr W H. P. Anderson Poons.

THE REGIONS BEYOND MISSIONARY UNION —An interdemonthational Society commenced work at Mothari, Behar in 1900 and now ecouptes 4 stations and 7 outstations in the Champaran and Saran Districts, with a state of 18 Europeans and 34 Indian workers There are 21 Riementary schools, with 517 pupils, a Girls and a Boys Orphanage and Boarding school communicants number 50

THE NATIONAL MISSIONARY SOCIETY OF INDIA—Established 1905 it has a staff of 21 Indian Missionalles operates in Karwar Okara (Punjab) and Omalur (Madras) Com number 125 Christian community 1,500 Elementary schools 10 Dispensar patients 1 700 Secretary K T Paul, Esq B.A LT., Madras S W Dispensary

THE SEVENTH DAY ADVENTISTS—Established 1890 have 44 Musloueries in various parts of India Communicants 221 Christian community 1034 Churches 2 Elementary schools, 4 Hospitals 2 Dispensaries 2 Patients 1150 Servicing Rev J J Shav Kirkville Hou e Mussoori

The August Mennorth Mission—

Briablished 1811) works in the C. Province Mission staff munibers 21 Indian works is 80 Church no rights 60 1 Indiantifal Fatinin Iostitution 1 High school 1 Libbs School Orphanal, 1 Midwa Home I Lept Assum Licenstan S hools 8 Normania 1 House House Indiantifal Fatinin Indian M. C. Lapp. P. O. Dhumtari, C. I.

THE MENSONITE MISSION GENERAL CONFIDENCE—Started in 1901 in the C. Provin Workers number 11 Leptr Orphan and village work carried on From the Loper Avlum 118 have been baptised Secretary Rev P W Penner Jangir CP

THE KUREU AND CHAPRAL INDIA HILL MISSION -- Letablished 1890 in the C. P. and Beray has a mission staff of 22 Indian work ers 17 Churchus Communicants 102 Christian community 550 Buarding I Industrial and 4 Elementary schools with 114 pupils Scoretary Mr Carl Wydner Elitchipur Beray

THE CEYLON AND INDIA GENERAL MISSION-THE CETION AND INDIA GENERAL MISSION— Schablished 1898, octopies stations in India in the Colmbatore and Anantapur Districts Mission state 23 Indian worker 50 Churches 10 with Communicants 256 and Christian community 678 Orphana, 3 3 Kiementary schools 14 pupils 326 Secretary Rev D Logan Cooncor Nilgius

THE BOYS CHEINTIAN HOME MISSION—Owes its existence to a period of famine was commented in 1892 Mission staff 8 Indian workers 20. There are two Elementary as books workers 20 There are two Elementary schools with 80 children Orphans and Widows Homes, and 20 in the Homes at Dhond Bahralch and Oral, where Industrial Training is given Direct or Mr Albert Vorton Dhond Poons Dist.

## **Ladies Societies**

ZUNANA BIBLE AND MEDICAL MISSION --This is an interdenominational society with headquarters in London working among women and girls in seven stations in the Bombay Presidency one in Madras fourteen in United Presidency one in Madras fourteen in United Provinces and five in the Poujab Thure are set of European Missionary Ladies on the staff with Headquarters at Hobangabad, Central and 22 assistant missionaries 210 Indian Provinces commenced in 1874 Work has women During 1913 there were 2,218 in Bhopal States, libers are 5 Churches, 27 patients in the five hospitals supported by the Society (Nasik, Benaves Janupur Locknow) and Patna) and 2. Sale out-patients, in their is Day schools, one High School and one Benavis

56 schools were 8 369 pupils, while 174 women were under training as teachers. The evangulatic side of the work is largely done by house to house visitation and teaching the women. In Zenanas 3 242 women in 2 682 houses were so taught

THE LUDHIANA ZHNANA AND MEDICAL MIS SIOY has removed its headquarters to Labore leaving only one Hony Missionary in Ludhiana who has charge of the Branch Dispensary as Gill and there is on Bible woman working in the city of Ludhians Four missionaries are in Lahore and work is bring carried on in the I ahore District in connection with the Pres

byterian Mission.

The Missionary Settlement for University Women was founded in Bombay in 1895 to reach the higher class of Indian ladles, its notil vities now include a hostel for women students, lu addition to educational social and evange listle work Secretary Mi.s Dobson Girgaum Bombay

THE MULTI MISSION the well known work of Pandita Ramabal enables upwards of 350 randa kandulu discolar upward of she wislows describ diversand orphans to earn a comportable living by mans of industrial work organised by the Landilo enported by a good staff of Indian indipers. A large staff of European Missionary Ladies do evangelistic work in the surrounding Kedguon Poona District

#### Disciple Societies

The India Vission of the Disciples of Christ (Foreign Christian Missioners biolety of Cincinnati Ohlo and (histian Womens Board of Missions of India combused) commenced work m 1882 its area Central and United Provin cos number of Indian Churches 13 and in m reed communicants 139— its staff includ-log Missionaries wives 07 Asst mission arles 3 and Indian Workers staff 207 There are 7 Hospitals 17 Dispensaries with 50 118 in patients and out patients for the past year Three Orphanages and an Industrial Home show 440 inmates. Two leper asylums with 132 inmate. In connection with the industrial work a farm of 400 seres has been taken at Damoh. There are 8 Middle schools

taken at Damon Inere are s major schools with \$120 scholars An active genana work is carried on The Au traina franch has three Mission station in Poont District. The theat Britain and Ireland branch has two unston stations, one in Mirzapur District if P and one in Palaman District or is a libese have no organic man District Origin Phase have no organic ciples of Christ

Rot W B Alexander BA Secretary Damoh ( I

#### Undenominational Missions

THE CENTRAL ASIAN MISSION with a Church Dispensory and School is found on the W W Frontier con lucted on the Imes of the China. Inland mission and has kafristan as its object

Hospital with a general dispensary connected with the Mission in addition to a self-support-ting wearing community at items and indus-fried Works and a Farm Colony at Hosengabad Secretory Mr Henry L Robson Schagpur C P

The American Friends Mission with 5 Missionaries is working at Nowgong Secretary Miss D Fistler Yowgong C I
The Old Church Hobrew Mission was established in 1888 in Calcutta, and is said to be the oulv Hebrew Christian Agreey in India. Secretary J W Pringie, Esy Calcutta

THE OPEN BRETHERN—Occupy 40 stations in the L Provinces, Bengal 8 Maratta, Goda veri Delta Kanarese Tinnevelly Malabar veri Delta Kanare Tinnevelly Coast Colmbators and Vilgiri Districts hold an annual Conference at Bangalore

#### Lutheran Societies.

(Several of the Umman Missions mentioned below have suspended or curtailed they world The American Evangelican Lutheran Mission General Council founded in 1844 for the ( oda veri and Kistna Districts has its Headquarters at Bajanumdry Its stail remistate it 27 including Missionaries wives and Lady Doctors with Indian Workers The membership i School at helder the Managara and Gitta Central Schools Mission Press a well-quipped hospital and Book Depot at Rajamundry and a High School at Peddapar Chairsan The Rev C F Kuder M.A. Hajahmundry

The General Sypod Section of the above The General Sylond Section of the above has its headquarters in Guntur founded in 1842 Its Christian community numbers 45,594, with 16 242 communicants 2" mile stonarice inclusive of wives and 815 Indian stonaries inclusive of wives and 815 indian workers showing an increase of 61 per cmi during the past ten years. The following institutions are connected with the Mission a mecond grade College High school for Girls, Hospital for women and children Normal training School and Industrial School. Secretary the Rev. Victor McCauley Guntur.

THE EVANGELICAL NATIONAL MISSIONARY SOCIATY OF SWEDEN founded in 1856 on uples the districts of Betul Chindwars and Saugor in the Central Provinces There are 1 600 Church members and 11 Indian churches The church members and 11 Indian churches The staff numbers 53 including women with an Indian staff 150 Schools number 41 with 555 children Only two of the schools are Secondary all the rest are Primary Schools There are small dispensaries at most of the stations Secretary Rev A G Danielsson, D D Chiludwara (P

The Hermanusburg Evangelical Lutheran Mission began its work in India in 1866 and operates in the South Nellore, the Rast Chittore and South East Caddapa Districts There are \$2 Indian Churches 13 European Missionaries and 178 Indian workers Church members number 3 170 Women's work is done in Satations with a large Industrial school for To got in a foreth is abilities to Tomorous with a large Industrial school for the state of the satations with a large Industrial school for the satations with a large Industrial school for the satations with a large Industrial school for the satations with a large Industrial school for the satations with a large Industrial Section 1981 and 19 To girls in a fourth in addition to Zenana and Educational work There are 21 Lower grade Elementary schools 1 High school, 1 Lower Secondary and 3 Higher grade schools and a English lunguages Owing to the internment of Theological Seminary and Training school. A a number of missionaries belouging to the Basel Legar Asylums it stationed at Ecolum with a Maskus, it has been impossible to revise the Dispensary and a large Industrial school at above signres which are for 1914 Raymanpeta. Since the beginning of 1914 a Secretary Rev A. Schoner Mangalore.

part of the field of the Hermannsburg Mission has been ceded to the Ev Luth Joint Synod of Oblo and other States in U S America, who had expressed the wish to enter the field kodur and Putter with the loper asylum at Kodur was occled to them with 2 European missionaries 26 Indian workers and 424 church members The Hermannsburg Missions secretary is as yet acting for the Ohio Mission also Secretary Rev J Rohwer Gudur Nellore Dist Madra-

The Schlesswig Holstein Evangelical Lutheran Mission commenced in 1881, operates in the Vizagapatam District There are 12 stations a total Missionsry Staff of 44 with 441 Indian workers. The growth m the Christian population has been from 1 580 in 1901 to 16 560 in 1914 Communicants number 4 140 and Catr chumen 7862 Education work comprise 1 Theological Seminary 1 Secondary 1 Indu. trial and 100 Elementary schools providing her 2, 16 punds There are 9 Dispensaries with 50 000 patients for the year English Services 50 000 patients for the year English Services are held in the Missien Church at Jeypon Secretary Rev J Th Timmeke koraput Vizagupatam

LEIPZIG EVANGBLICAL LUTHERAN MISSION GERMAN DIOCESE.—The mission commenced in 1834 and is confined to the Tamil speakin, areas, thirfly in the Madras Presidency with an Indian Minister and Church in addition in an Indian Minister and Church in addition in Rangoon Pb total European staff numb r-31 ordained Indian Ministers 2. and 97 Indian workers Organised Churches 33 places of worship 221 Baptlased numbership 18 86% There are 226 boys schools (including a Tailing an industrial and 4 Secondary schools) and 23 Girls schools including an industrial school The teaching staff numbers 404 and pupils 10 188 Zemana work is actively pre-secuted. A Printing Press and Publiship-House are established at Tranquebars Presulcife Rev Th Meyner Kilvauk Madras Rev Th Meyner Kilpsuk Madras

THE BASEL WISSION WA commenced in 1834 and occupies 28 main stations and 128 out stations in the Courg S Mahratta Nilgirls and N and S Camara districts of S W India The total European Staff numbers 159 with 1 119 Indian workers Flore are 38 organised Churches with a member-hip of 19 7c2 Edm cational work embraces 204 schools (including 2 Theological 9 Boarding and 4 High schools) 2 Theological y Boarding and 4 high schools) with 16 970 Elementary and 1500 Secondary school pupils and 831 scholars in Boarding Institutions and Orphanages There are good Bospitals at Beight and Captou under European doctors with 3 branch hospitals and 4 Diapensaries connected 68 804 patients were treated last year Chevayur There is a Leper Asylum at

The Industrial wo k of the Mission is second to none in India and comprises 17 establish ments embracing one mechanical establish ment of a first rate order at Mangalore 2 Mer cantile branches 7 Weaving and 7 Tile work establishments in the Kanara and Malabar case one ministry in the Kanara and Malabat, districts amployes number 3638 A large Printing Press at Mangalore issues publication in the Kanarcee, Malayalam, Tulu and English languages Owing to the internment of a number of missionaries belonging to the Basel.

THE CHURCH OF SWEDLE MISSION—Was Christian races has been at the rate of 18,000 anded in 1874 and operates in the Madum per amunu, for the last decade. The Isabella anjore Trichinopoly and Rammad Districts. Theorem Training College at Lucknow is a large need to be Mission works independently and in close relationship with the Leipzig at Calcutta Madras and Lucknow. Tan Church of Swann america was founded in 1874 and operates in the Madura Tanjore Trichinopoly and Ramnad Districts. Since 1901 the Mission works independently though in close relationship with the Leipzig Missionary Scolety The staff numbers 12 haptised membership 2,867, Schools 57 with 3,180 pupils Secretary Rev D Bezell, Madura The Missional Lughtman Missional Lught

and a staff of 16 Mission ares One Trading school 58 pupils and 41 Elementary schools with 1 717 pupils are connected with the Mission Secretary Rev G Hucheuer Nagercol.

Travancore

THE DANISH EVANGILICAL LUTHERAN MIS SION -- Established 1863 in South Arcot, work ning there and in North Arost on the Shervaroj Hills and in Madras has a total staff of 40 Mg sionaries and 200 Indian workers Communi cants 818 Christian community 1923, 1 High school 2 Boarding Schools 4 Industrial Schools

School 2 Boarding Schools 2 Industrial Schools Remember V Schools 40 total scholars 2,867 Dispensary patients -4 643 Chairman, Rev J Bittinann 38 Broadway Madras on furlough Jag Ubaurman Rev Knud Helberg 14 Rundalls Road Madras N C

Helberg 14 Rundalls Road Madras N.

TRE GERMAN ENANGLICAL LUTHHAN
(GOSNER'S MISSION)—Founded 1836 occupies stations in Bengal, Bibar and Aream the
fussion staff numbers 92 Indian workers
1017 Communicants 34 208 and Christian
community over 100 0010 organized Churches
437 Theological and Tracher's Seminaries
65 pupils. Boarding Schools 38 Elementary
Rehools 277 Pupils in schools 9 355 Leper
asylum 728 jumates. Jaco schools in Ranchi
cold Prunity and Purulia

Secretary Rev Paul Wagner Purulia, B N Rly Manbhum Bihar Head quarters Fri denaw Berlin Germany

THE SERVAL MISSION OF THE NORTHERN CHURCHES—(formerly known as the India Home Mission to the Santals)—Founded in 1867 works in the Santal Parganas to alpara (Assam) Malda and Dinapur Works principally among the Santals Dinapur Works principally among the Santals Dinapur Works a principally among the Santals Dinapur workers 264 communicants 3 000 Christian community 25 000 communicants 4 000 Christian community 25 000 christian chris 18 000 organised churches 30 boarding schools 2 pupils 340 clementary schools 31, pupils 635

Secretary Rev P O Bodding Dumka Santa Parganas.

## Methodist Societies

The Methodist Episcopal Church began its Indian Mission in 1857 and with the exception of Assam, and the N W Frontier Provinces is now established in all the political Divisions of India Its number of baptised Christians stands at 286 275 under the supervision of 240 ordained and 900 unordained Ministers Shooled all trades support 1860 etc. 3 co. Schools of all grades number 1 569 with 39 087 students Sunday School scholars stand at 128,000 and young peoples societies at 804 generally known as Epworth Leagues Thirty Anglo Indian Congregations are found in the larger Cities, with one College 6 High schools, and numerous Middle schools for this class. and numerous Middle schools for this class. Indian workers, Organised church 1 Communi For Anglo Vernacular Education the mission has conte 70 1 Industrial and 6 Elementary 8 Colleges, 18 High schools and 62 schools of schools, with 125 puriss.

Lower grade. The net increase from the non Secretary Miss L. D Calidas, Ysotmal, Berar

In Burms there are 9 schools with 1484 pupils a large Boarding and Day school for European Girls at Rangoon a hill station Boarding school for Girls at Thandaung, and an Angio Indian Church at Rangoon.

While financially supported by the Board of Foreign Missions of the American Methodist Episcopal Church ecclesiastically the Church in India is independent of foreign control in India is independent of foreign control being under the supervision of its own bishops, recommendation of the supervision of its own bishops, recommendation of the supervision of th

Pardi

The Peformed Lpiscopal Church of American (Methodist) at Lalitpur and Lucknow U P has 2 Missionaries 4 Outstations 2 Orphanages and a membership of nearly 100

THE WESLEYAR MERRODIST MISSIONARY SOCIETY commenced work in India in 1817 (1 s)lor in 1814) The Mission in India is organised into 10 District Synoids with 3 Provincial Synoids There is a large English work connected with the Society 20 minusters giving their whole time to Military work and English churches

The districts occupied include 64 main stations in Bengal, Maltras, Mysore, Bombay Punjab Central Provinces Hyderabad (Nixama Dominiona) Trickinopoli and Burma The Buropean Staff numbers 150 with 2,497 Indian workers Communicants 18987 and total Christian community 45 872 Organised Chur ches DB

Educational work comprises 4 Christian Colleges students, 560 10 Theological Institu-tions pupils, 80 11 Fraining Institutions tringes studiets, 500 10 freshing institutions pupils, 80 11 fraining institutions papils 96 20 High Schools, pupils, 5139 71 Boarding school scholars 2478 10 Industrial schools pupils 602 11.7 Elementary schools with 5°388 scholars in Medical work there are 12 hospitals, 22 dispensaries, 18 qualified doctors —984 in patients and °5 703 out-patients for the year

The above particulars are those published for 1914

Two Chairman of General Vynod -Rev J Cooling B.A Madras

The Women's Foreign Missionary Society of the M. R. Mission is divided into 7 Conferences and is co-extensive with the main work of the Mission Upwards of 172 Lady Missions rice are engaged in Educational Zenana, and Medical work The Secretary for the Bountary Conference is Miss A A Abbott, The Manae, Bellasie Road Bombay
Two Face Methodist Mission of

Тив Грби America -- Established at Yeotmal, 1898 operates in Berar with a Staff of 19 Missionaries and 16

#### **ROYAL ARMY TEMPERANCE ASSOCIATION**

In 1862 there was skatted among the British its work, generally The wonderful change troops in Agra a small Sectety under the late using years has taken place in the leadership of Rev G Gregoon, Baptist ministrate of the British Army in India which after a slort time took the name of the Section 1992 of t

For some ten years the Soult's struggled with Yarying success, spreading to other Garrason Stations, but at the end of that time though it had obtained recognition from the Horse Guards, and was the first Society whose Piedge was so recognised the membership was not more than 1,200 in the year 1873 however through the influence of the then Commander in-Clief, the work was placed; on a firmer footing the Rev Gebon Gregon gave up ha whole time to it, and by accompanying the troops through the Afghan Warmaking an extended tour through Egypt, and bringing the work hits close tourn with troops both during Peace and war in the year 1886 when he left the Society it numbered about 11,000 members He was followed by a Riadras Chaplain, who after two years gave place to the Rev J. H. Rateson of 1886 the late Lord Roberts, Commander in Chief, organised his Scheme for Regimental institutes which have had a wonderful effect on the life of British soldiers in the Rat and the lotal Abstances Society was so far incorporated into the scheme as to be allowed ample accommodation and many practical benefits in every Unit At the arms of the Army Temperance Association and the work of various societies thus linked together under one organisation. The effect has been more than even the inaugurator life of the Army Temperance Association and the mane were hoped for The mombership rose steadily from that date and still increases.

Grewth of the Society —In 1889 there ware 12,140 members in 1899 20 688 in 1809 20 250 while in 1912-14 the total was 3000 or over 45 per cent of the total garrison in India. In 1908, the Secretary having resired after 20 years work the Rev H C Martin, M.A. a Chaplain in Bengal, was selected by H E Lorit Litchener to the poet of Secretary Iwenty years ago the Association, which has now for some years been the Hoyal Army Temperance Association with the Patronage of King Edward VII, and later of the King Emperor George Lorin with the Patronage of King Edward VII, and later of the King Emperor George Lorin with the Patronage of the Edward VII, and later of the King Emperor George Britain, with headquartors in London from which the troops in South Africa, the Meditornanean etc are controlled so that the whole British Army receives the attention of the Association

Varied Activities —What primarily has been decrease of intemperance and promotion of sobriety among soldiers has gradually grown into work of every kind, in the interests of soldiers promotion of sport occupation of spare time assistance towards employment in Civil Life, advice and information on the subject of Emigration provision of Furiough Hornes, all tend to anist the support of officers and may in the Association and a few for the province of the content of the springer of officers and may in the Association and a few for the springer of the province of the springer of the spri

its work, generally The wonderful change that in late years has taken place in the character of the British Army in India especially is due to various causes including the increased interact in games and sports, the spread of oducation of men outlated and so on but the P A T A. has always been given its ine share among other causes by all authorities and Blue Books, and particularly by Officers for manding Divisions, Brigades and Units These changes in conduct are seen most plainly in the increased good health of the Army in India.

Effect in the Army—In the year 1889 1744 British soldlers died in India and 1,800 were invalided unfit for further duty in 1910 only 390 died and 484 were invalided in 1889 688 underwent treatment for Debrudm fremens, in 1910 only 37 In conduct the same difference is to be found as late as 1901 as many as 545 Courts Martial were held on min for ofference dut to versite drinking in 1906 only 21 In 1904 2.231 good conduct medals were assuit in 1910 there were 4.581 In regard to the character of the men them elves who become in imbers of the Association, during their service we find that in 1912, 59 per cent on transfer from the Colours obtained 1 averaging of Very Good the remain it wan for the most part men who after some years of heavy drinking had towards the circle of the revice been persuaded to try and reform themselves but not som enough to avoid the town-equates of previous xeres.

Organization.—The War has more analy brought more and work upon this soulery the results of which were very quickly appearent Capacious receptions hid sited up in the Bocks at Bombay and Karachi proved of the greatest water to troops moving from India and to the large number coming in special arrangements and do ya loan from the Government of India enabled the R. A. T. A. to organize branches in every Territorial unit trained actely on arrival special attention being paid to small detach ments and to the Hill stations. In consequence of the Garrison over 70 Territorial Branches containing nearly 50 per cent of the my arrivals and this has increased consistently even since. In addition to covering all troops from Aden to Singapore the R. A. T. A. is the only been ty working among the Troops of I.R.F. D. the force in the Portian Gulf. Institutes.

D "the force in the Porsian Gulf" Institutes have been opened and the cordial good will of the authorities enables the R 4 T A to provide many amentides to the very trying experience of this Force. The man relicved, and sent back to India for periodic rest in addition receive a warm velcome and entertainment at the hands of the Association. The following is the organisation of the Council and management.—

Puron His Majorty the King Emperor President His Excellency the Commander In-Chief. Noscount!

The General Officers, Reads of Departments Army Readquarters.

The General Officers Commanding Divisions Two Officers Commanding Regiments Officers of the R A M C and I M S Iwo Regimental Quartermasters

Representatives of the various Churches. Rescuivos Committee

The Secretary Army Department The Adjutant General The Quarter Master General The Director General, Military Works The Military Secretary to the C in C General Secretary Rev H C Martin WA. Treasurer Mr F L Shearman Andstor Mr H C O Brien

Bankers Alliance Bank of Simia. Hend Office Middlelands Simia.

Official Organ On Guard published monthly (Be 3 per annum)

THE ANGLO-INDIAN TEMPERATOR ASSOCIATION—Founded by the late Mr W 8 Came MP is a Home Association which has been the means of establishing a net work of Tempe rance Societies throughout the Indian Empire and has provided a common platform upon which Christians Hindus Mahomedans and Parus unite for the moral elevation of the Indian peoples There are 280 Indian Societies affiliated with the Association The President is fir J Herbert Roberts Bart MP and Secretaries, Sir Bhalchandra Krishns, Kt L M (Bombay), and Mr John Turner Ras (London) The interests of the Association are especially represented in Parliament by the President, and the Riflon T R Ferres MP Mr J Herbert Lewis MP and the Bt Hon Sir Thos Whit taker MP and to whom are members of the Association 6 Council rance Societies throughout the Indian Association a Council

which meets every year as a matter of through various districts convenience at the same time and place as meetings and addressing the masses wherever the Indian National Congress, but having no possible Educational work especially to official connection with it. The President the front in the Punjab district through the electric annually. The President for 1914 was Amribaar Society.

the Roy Herbert Anderson The membership of the Conference is the 230 Indian Temperature Societies affiliated with the Angio-India Temperature of which delegates are sent to the Annual Meeting of the Conference. Special Council multiput ing Presidency Societies are established at Bourbay Alfahabad Caloutta and Madras, each of which has its own local President Secretary and Committee The Bombay Temperature Council was inaugurated in 1897 It consists of delegates elected by the Rev Herbert Anderson. The membership of in 1897 It consists of delegate elected by about 23 different temperance, religious and pullanthropic societies at work in Bombay, boons Ahmedabad and Surat Including several of the Christian churches the International Order of Good Templars the International Order of Rechabites and the Women a Christian Temperance Union. The medium of communication between the Societies composing the conference is the Abkert, published quarterly from England by the A I T A. Amongst the general alms of the Conference may be mentioned -

The separation of the lieusing from the neven no

The doing away with the present system of license authonoring

The reduction of the present number of liquor shops and the prevention of the formation of new ones in important positions especially in the crowded areas

The later opening and the earlier closing of liquor shops, and the entire closing of them on public holidays

The introduction of Temperance Teaching in the Government Elementry Schools and Colleges which despite the desire of Government expressed in their Circular letter No 780 37 of 12th Sept 1907 to deal with the subject of Intemperance in a few sensible lessons in the sanctioned Readers has not yet been adequately treated and as in the corresponding schools in England

The general spread of Total Abstinence prin ciples depends ciples depends more largely upon the individual Societies constituting the Confer-THE ALI-INDIA TEMPERAYOR CONFERENCE.—

In the methods are lantern addresses domained by ithe methods are lantern addresses dramatic above and in closest relation with it is the representations and among by itherant All India Temperance Conference formed in prescher Twelve paid Lectures travel 1903, which meets very vear as a matter of through various districts holding public convenience at the same time and place and defeated the convenience at the same time and of the convenience at the same time and of the convenience at the same time and of the convenience at the same time and of the convenience at the same time and of the convenience at the same time and of the convenience and of the convenience at the same time and of the convenience and of the convenience at the same time and of the convenience and of the conv

## CREMATION

by the Hindus but has been little adopted by the Hindus but has been little adopted among the Europeans in India A crem a torium was started some years ago in Catouta, close to the Lower Circular Road Cernetery at a cost of Rs. 49 000 But the return for this expenditure is disappointing Only five or six cremations take place in Catoutta each of the dead. In Bomb year in spite of the fact that the he for crease thou has been fixed by the Gremation Sodel was to preserve the ashes

Cremation as a means of disposing of the subject to reductions in the case of poor fami dead is commonly adopted throughout India lies. The reason for this is thought to be that lies. The reason for this is thought to be that, when possible Europeans go home to die, and the Native Christians and Eurasians are very largely Roman Catholics among whom a prelargely Homan Cathones among whom a pri-judice exists against this form of the disposal of the dead. In Bombay arrangements have recently been made for a small area in the Sewri Cemetery to be waited in and for cre-mations to be earned on within it in the pet-mative style of the country but in such a way

# Warrant of Precedence in India.

(Brought up to 1 January 191.)

VICTORIA by the Grace of God of the United Kingdom of Great Britain and Ireland Queen Defender of the Faith, Empress of India

To all to whom these presents shall come

WHEREAS it hath been represented unto Us that It is advisable that the rank and precedence of persons holding appointments in the East Indies as regulated by Our Hoyal Warrant dated the 18th day of October 1876 should be altered We do therefore hereby declare that it b Our will and pleasure that in licu of the table hald down in Our sald recetted Warrant the fol lowing table be henceforth observed with respect to the rank and precedence of the persons here inafter named viz -

- I Governor-General and Victory of India
- 2. Governors of Madras Bombay and Bengal 3 President of the Council of the troyernor
- 4 Lieutenant-Governor when in his own territories.
  - Commander in Chief in India.
    Lieutenant-Governor

Chief Justice of Bengal

- Bishop of Calcutta Metropolitan of India. Ordinary Members of the Council of the Governor-General
- 10 Commander in Chief of Her Majesty s Naval Forces in the East Indies
- 11 Chief Justice of a High Court other than that of Bengal.

that of Bengal.

2. Bishops of Madras and Bomban

13. Ordinary Members - Council in Madras

Bombay and Bengal

14 General Officers Commanding the

Northern and Southern Armice Chief of the Chief of the

- General Staff 15 Chief Commissioners of the Provinces and Assam, Residents at Hyderabad and in Mysore and Agents to the Covernor General in Ralputana, Central India and Baluchistan Executive Members of the Council of the Lieutenant-Covernor of Biliar and Orissa the Agent to the Governor Green and Orissa Commissioner of the North West Fronter Province (North—When within their own jurisdiction these officers take precedence of those mentioned in Article 14]
  - 16 Pulane Judges of a High Court
- 17 Chief Judge of a Chief Court
  18 Military Officers above the rank of Major General.

19 Comptroller and Auditor General

- 20 Additional Members of the Council of the Governor General for making Laws and Regulations Chaltman of the Reflway Board
- 21 Bishops of Lahore, Rangoon, Nagpur and Lucknow
- 22. Secretaries to the Government of India, Joint Secretary to the Government of India m the Public Works Department and Members

- of the Railway Board.
  23. Commissioner in Sind.
  24. Judges of a Chief Court, Recorder of Rangoon and Judicial Commissioners, Burms.
- 25 Chief Secretaries to the Governments of Madras and Bombay , Chief Commissioner of Delbi

26 Major Generals, Members of a Board of Revenue Commissioners of Revenue and Customs Bombay Pinancial commissioner Punjab and Burma the Inspector-General of and the Director General Indian Irrigation Medical Service

2. Judicial Commissioners, including Additional Judicial Commissioners of Oudh the

Central Provinces and Sind

29 Additional Members of the Councils of the Governors of Madras Bombay and Bengal for making Laws and Regulations Members of the Legislative Council of a Lieutenaut-Governor 29 Yee Chancellors of Indian Universities

FIRST CLASS

## 80 Members of the Indian Civil Service of

30 years standing 31 Advicate General, Calcutta

- 32 Commissioners of Divisions the Superintendent of Port Blair and Recidents Political Interded of Proposition Agents and Superintendent drawing Rs 2 000 a mouth and upwards (not being Collectors or Deputy Commissioners of British Districts) within their respective charges—the Revenue and Judicial Commissioners—Baluchitzen within Baluchistan and the Agency Territories
- 33 Chief Secretaries to Local Governments other than those of Madras and Bombay
- 34 Surveyor General of India Directors-General of the Post Office of Telegraphs in India and of Railwaye Chief Engineers, first class the Directors of Isaliway Construction and Railway Traitic Accountants-General, Military and Public Works Departments Director Royal Indian Marine and Manager North Western Bailway.

45 Bishops (not territorial) under license from the Crown

36 Archdesions of Calcutta Madras and

Вошва 37 Brumdiers-General Consuls General

- 38 Commission 78 of Divisions the Revenue and Judicial Commissioners in Baluchisten when in Kalat or Las Bels or elsewhere without the limits of his charge
- 39 Commissioner of Northern India Salt Revenue Opium Agents Benares and Bihar and Durector Central Criminal Intelligence Deparlment

40 Secretaries and Joint Secretaries to Local Governments and Private Secretary to the Vicator

#### BROOMD CLASS.

- 41 Members of the Indian Civil Service of 23 years standing and Colonels Consuls 42, Military Secretary to the Vicerov
- 43 Judicial Communicationers of the Hyderabad Assigned Districts and Baluchistan the Superintendent of Port Blair Residents. Assigned Ass
- 44. Inspector-General of Forests in India, Director of the Geological Survey and Director-General of Education in India. Scattary Com. missioner with the Government of India.

- 45 Standing Counsel to the Government of Lodia.
- 46 Directors of Public Instruction, and Inspectors-General of Police and Prisons under Local Governments, and Accountants-General.
- 47 Survey Commissioner and Director of Land Records and Agriculture, Bombay Com-missioners of Settlements and Controllers of Military Accounts.

  48 Chief of Senior Civil Secretary to a Local

Administration

- 49 Chief Engineers second and third classes Deputy Surrevor General Deputy Director General of Telegraphs in India, and Director in Chief Indo European Telegraph Department and Secretary to the Railway Board
- 50 Divisional and District and Sessions Judges, Collectors and Mandstrates of Districts Deputy Commissioners of Districts Deputy, Superintendent of Port Blair and the Chief Officer of each Presidency Municipality within their respective charges Officers in charge of Zhob Quetta Pishin and Thal Chottall Districts throughout their respective charges.
  - 51 Archdeacons of Labore Lucknow Ran

goon and Nagpur

62. Deputy Secretaries to the Government of India and Director General of Commercial

Intelligence
53 The Seuler Chaplains of the Church of Scotland in Bengal Madras and Bombay

54 Remembrancers of Legal Affairs and Government Advocates under Local Governments Chief Conservators of Forests.

J5 Officers in the First Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service Controller of Printing and Stationery

#### THIRD CLASS

- 58 Members of the Indian Civil Service of 18 years standing and Lieutenant Colonels 57 The Deputy Director Royal Indian Marme
- 58 The Amistant Director Royal Indian Marine
- 59 Commanders and Inspectors of Machi nery Royal Indian Marine
- 60 Political Agents and Superintendents drawing less than Rs. 2 000 a month (not being Collectors or Deputy Commissioners of British Districts) within their own charges Political Agent in Kalat District Judges in Lower Burma and Judge of the Small Cause Court Rangoon within their respective charges
- 61. Secretaries to Local Administrations other than those already specified the First Assistant to the Agent to the Governor General in Balu chistan First Assistants to the Residents at Hyderabad and Mysore and to the Agents to the Governor General in Rajputana and Central India.
- de Consulting Engineers to the Government of India for Railways, Consulting Architect and Chief Inspector of Explosives.

  - 63 Private Secretaries to Governors.
    64 Military Secretaries to Governors
    65 Administrators-General.
- 66 Sanitary Commissioners under overnments Postmesters General Local under Governments Postmasters General the Comptrollar Post Office and Conservators of

67 Directors of Public Instruction Inspectors-General of Police and Prisons under Local Administrations, Comptrollers and Departy Auditors-General, and Deputy Director Central Criminal Intelligence Department.

Criminal Intelligence Department.

68. Managers of State Railways other than
the North Western Railway Chairmen of the
Port Trust, Bombay and Rangoon and Chairman of the Port Trust, Calcutta.

69 Vice Chairman of the Port Trust,
Calcutta, Directors of Traffic and Construction,

Calcutta, Directors of Traffic and Construction, Indian Telegraph Department Directors of Telegraphs first class Examiners of accounts, Public Works Department first class Officers Railways first class, first grade Superintending Engineer. Public Works Department, first Superintendents of the Survey of India cluss Department first grade
70 Inspectors General of Registration and

Directors of Land Records and Agriculture, and Exclse Commissioners under Local Govern

71 Sepior Chaplains other than those already specified
72. Sheriffs within their own charges.

78 Officers in the Second Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service Political Agents and Superintendents in Baluchistan drawing less than Rs 2 000 and Political Agents in Harnott and Tonk when outside their respective charges (unless their Army rank or standing in the Civil Service gives them a higher place)

Actuary to the Governm nt of India

TOURTH CLASS

74 Members of the Indian Civil Service of 12 years standing and Majors Vice-Consuls District Judges in Lower Burna and Judge of Small Cause Court, Rangoon (outside

respective charge )
75 Lioutenants of over 8 years standing and
Chief Engineers of the Royal Indian Marine thief Accountant Office of the Director of

Ordnance Factories

76 Government Solicitors.
77 Inspectors-beneral of Registration Sanitary Commissioners, and Directors of Land Records as I Agriculture under Local Administrations Civil Engineer Adviser to the Director

of Ordnance Factories

d Officers in the Third Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service Legaty Accountant office of the Director of Ordnance Factories

The entries in the above table apply exclu sively to the persons entered therein and, while regulating their relative precedence with each other do not apply to the non official commu-pity resident in India the members of which shall take their place according to usage.

Officers in the above table will take precedence in order of the numbers of the entries. Those included in one number will take precedence unter se according to the date of entry into that number

When an officer holds more than one position in the table he will be entitled to the highest position accorded to him.

Officers who are temporarily officiating in any number in the table will rank in that number below permanent incumbents

All offices not mentioned in the above table,

All other persons who may not be mentioned to take place according to take rank according to general to take place according to general with reference to such precedence in England, immediately after the wives of Members of by the Governor-General in Council in case any question gail arise. question shall arise

Nothing in the foregoing Rules to disturb the existing practice relating to precedence at Native Courts, or on occasions of intercourse with Natives, and the Governor-General in Council to be empowered to make rules for such occasions hi case any dispute shall arise.

All ladies to take place according to the runk herein assigned to their respective husbands, whose mak is regulated by comparison with herein seeigned to their respective husbands, reak is the army to have the same rank with the exception of wives of Peers, and of restrance to give servents as is enjoyed by lightery Othors of ognal grades. runk below the caughters of Barons, such ladies

Given at Our Court at Vindsor this tenth day of December in the year of Our Lord One thousand eight hundred and ninety-eight and in the aixty-second vear of Our Relgu

By Her Majesty & Command.
(Signed) GEORGH HAMILTON

## Supplementary Graded List of Civil Offices not Reserved for Members of the Indian Civil Service Prepared Under the orders of the Governor General in Council.

\*First CLASS-(No 55 of the Warrant) Asser Martie of the Mint. Calcutta and

Bombay Chief Judges of Presidency Courts of Small Causes

Commissioners of Police Calcutta Madras-Bombay and Rangoon

Controller of Printing and Stationery

Deputy Comptroller-General.

Director General of Archeology

Director-General of Statistics

Director of the Botanical Survey of Judia Imspector General of Agriculture in India Masters of the Mint Calcutta and Bombay

Meteorological Reporter to the Government | of India

Superintendent of Rovento Survey Madrae Superintendent Trigonometrical Surveys
SECOND CLASS—(No 73 of the Warrant) Advises on Chinese Affairs in Burma

agent General in India for the British Pro-tectorates in Africa under the Administration of the Roreign Office.

Chief Collector of Custom Furms Chief Constructor of the Royal Indian Marine

Dockyard at Bombay Chief Inspector of Mines in India.

Chief Presidency Magistrates

Chief Superintendents of the Tolerraph

Department.
Onlestor of Customs and Salt Revenue Sind

Collectors and Magistrates of Districts and Deputy Commissioners of Districts and of Bettlemants.

Conservators of Forests, 2nd and 3rd Grades

Deputy Accountants-General under Local India. Governments.

Deputy Directors of Telegraphs Deputy Inspectors General of Police

Deputy Superintendent of Port Blur

Directors of the Persian Gulf Section and I and Briting Calenta Telegraph Department.

Director of Telegraphs, 2nd, 3rd and 4th Charles.

Divisional and District and Sessions Judges Examiners of Accounts Pul Department, 2nd and 3rd Classes Government Astronomy Madras Public

Government Emigration Agents at Calcutta for British ( mane and Vatal and for Trandad Pill, Jamales and Mauritius

Imperial Bactenologist Imperior of Mines to the Government of Ludus

Librarian Imperia Library

Officers in charge of the Records of the Government of India

Officers of the Indian Educational Service and of the graded Educational Service drawing Rs 1,200 a month and upwards

Officers of the Superior Revenue Establishment of State Railways 1st Class 2nd and 3rd Grades

Principal of the Mayo College at Aimere Principal of the Rajkumar College at Rajkot Reporter on Economic Products Superintendent of the Royal Botanical Gerdena Calcutta

Supermtendents teclogical Survey of India, Superintendents of Revenue Survey and Assessment Bombay

Superntendents of the Survey of India Department 2nd Grade Superintending Engineers, Pul Department 2nd and 3rd Classes. Public Works

Under Secretaries to the Government of India.

"TEIRD CLASS-(No 78 of the Warrant) Agricultural Chemist

Amistant Directors of Dairy Farms

Assistant Inspector General of Forests Assistant Secretaries to the Government of

Chief Chemical Examiner Central Chemical lahoratory Walnital

(ollector of Stamp Revenue, Superintendent f Excise Revenue and Deputy Collector of

Commander of the steamer employed in the Persian Guli Section of the Indo-European Telegraph Department.

Constructors of the Royal Indian Marine

The entries in each class are arranged in alpha betical order

Doubyards at Bombay and Kidderpore. Executive Engineers, Public Works Department, 1st and 2nd Grades, Beputy Administrator-General, Beneal, Inspector-General of Railway Mail Service. Deputy Collector of Salt Revenue Rombay Deputy Commissioner of Northern India, Salt Judge of the City Civil Court Madras Revenue. Judges of Presidency Courts of amail Causes, and First Judge of the Small Cause Court Deputy Commissioners of Police Calcutta and Rombay

Deputy Commissioners of Saft, Abkarl and Rangoon Manager of the Cordite Factory Argyaniani. Customs Department Madras Officers of the Indian Educational Bervice and of the graded Educational Service, drawing Deputy Conservators of Forests drawing Rs. less than Re 1 250 a month, but more than 600 a month and upwards. R.s. 1 (100) a month. Deputy Lirector of Land Records and Agriculture, Madras and Burma. Officers of the Superior Revenue Establishments of the State Badways Second Class Deputy Director of the Imperial Forest School, Dehra Den 1st and 2nd Grade Deputy Directors of Revenue Settlements and Palseontologist Geological Burve, of India Deputy Superintendents of Revenue Surveys Presidency Magistrates Protector of Amigrants and Superintendent I hungration (alcutta Deputy Postmasters-General of the 1st 2nd and 8rd grades. Lublic Proventor in 5m d Deputy Superintendents, Geological Survey Registrary to the High Courts and to the Chief of India Court Punjab Deputy Superintendents Survey of India Sub Deputy Oplum Acent drawing Is 800 Department a mouto and nown 1 District Superintendents of Police drawing Superintendent of the lodgen Museum Re 800 a month and upwards supermit adopt of Land Legards and Agri-Engineer and Electrician of the Pirsan ulture in Alud Gulf Section of the Indo Luropean Telegraph Superintendents of Stamps and Stationery Department Examiners Public Superlutendents Irlegraph Department. οľ Accounts, Department 4th class 1st and 2nd grades 1st and 2nd Grades SALUTES IN INDIA. The following is the official table of salutry in Members of the Victory Council 15 Indian lerritories a term which includes Pirespotentianes and Enveys 1.. all the waters of India within three miles Lieut ( vernors of Нъ Majusty 8 Columies within which of the coast Indian seas some of the salutes are to be given extend Vice-Admirals Lieut Concrats or their from the North West entrance of the Strates of Malacca to Cape Comorin excepting Ceyton and from Cape Comorn to Aden including the Maldive and Lacradive Islands 13 Flags Agents to the Vicitos and Governor பெளவ 10 Agent to the toverner of Bombay in IJ and the Persian Gulf hathiawar No of Residents Chief Commissioners of Provinces, and Lame Persons. Commissioner or build 13 101 Members of the Literative Council of a Imperial Salute 13 Local Gov remout The King and Emperor when prescut in 101 Rear Admilials & Major C norale DOLLOS! their Flags Members of the Royal Family Royal Standard and Royal Salute 31 Political Agents and Charges d Maires 31 Commodores of the first lass and Bil Vicercy and Governor-General in Inlin 11 gadier-Gunerale 21 Independent Asiatic Sovereigns The Portuguese Governor of Damaun 21 Other Foreign Sovereigns

21

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Members of their Familles and their

The President of the Council of Endla Governor General of Portuguese Settle-

Lieutenant Governors of Provinces in

Commander in Chief in Judia (If a Field

Commander in Chief of His Majesty s

Generals and Admirals or their Flags

Commander-in-Chief in India (If a General) 17

Governors of His Majesty & Colonia

Standards

menta in India

Governa of Pondleherr

Ambassadors Governors of Presidencies

Tadle.

Marshal)

Naval Forces

# Salutes to Chiefs

Th Maharaja (( url war) of Barota If yele rasback The Virgin of The Maharuja of Myserre Salutes of 19 guns The Begain (or Nawab) of Bhonel The Maharaja (Hudhia) of. The Maharaja (Holkar) of. and Kashuir The Maharaja Gwalior Indore Jammu and Kashmir The Khan (Wall) of Kalat kolhapur The Maharam of

Return salutes to Foreign Men-of war

Return salutes to Captains of the Navy,

and haval Officers of inferior rank

The Governor of Diu

Mewar (Udaipur). The Maharana of. Travancore The Maharaja of

Salutes of 17 guns

Bahawatpur The Nawab of.
Bharatpur The Maharaja of.
Bharatpur The Maharaja of.
Bharatpur The Maharaja of.
Bundi. The Raja of.
Coohin. The Raja of.
Coohin. The Raja of.
Jaipur The Maharaja of
Kotah The Maharaja of
Rarwat (Jodhpur The Maharaja of
Pathaja The Maharaja of
Tonk. The Maharaja of
Tonk. The Wawab of.

Salutes of 15 guns

Alwar The Maharaja of.

Hanswara The Maharaja of Rhutan The Maharaja of Datia. The Maharaja of Datia. The Maharaja of Dewas (Seolor Branch) The Raja of Dewas (Junior Branch) The Raja of Dholpur The Maharaja Rans of Dholpur The Maharaja of.

Jaisalmer The Maharaja of.

Jaisalmer The Maharaja of.

Jaisalmer The Maharaja of.

Jaisalmer The Maharaja of.

Partabgarh The Maharaja of.

Partabgarh The Maharaja of.

Partabgarh The Maharaja of.

Birdhi, The Maharaja of.

Salutes of 13 guns

Honaros. The Raja of.
Cooch Behar The Maharaja of
Jaons The Nawab of
Rampur The Nawab of.
Thepers. The Raja of.

Salutes of 11 guns

Aisigarh The Maharaja of
Baoni, The Nawab of.
Bhaymagar The Thakur Sahib of
Bijawar The Maharaja of
Cambay The Maharaja of
Cambay The Maharaja of
Chariba. The Raja of
Chariba. The Raja of
Chariba The Raja of
Chariba The Raja of
Charagadhra. The Raja of
Charagadhra. The Raja of
Charagadhra. The Raja of
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Charagadh of The Raja of
Charagadh of Junagarh) The Nawab of
Charagadh of Junagarh) The Nawab of
Capunthala The Maharaja of
Mandl The Baja of
Mandl The Baja of
Mandra The Raja of
Mandra The Raja of
Mandra The Baja of
Mandra The Maharaja of
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Maharaja of
Maharaja of
Pahanajur The Maharaja of
Pahana The Maharaja of
Pahana The Maharaja of
Pahana The Maharaja of
Paharaja of
Paharaja of
Pudakrotaja or Pudakrotaj
The Rama of
Pudakrotaja or Pudakrotaj
The Nawab of.

Raigarh. The Rais of Raipipla. The Rais of. Railan. The Rais of. Samthar. The Rais of Simur (Nahan) The Rais of Sitter (Nahan) The Rais of Suket. The Rais of Tehri (Garhwa). The Rais of.

Salutes of a guns

All Rajpur The Raja of Belaginor (or Vadashor) The Naweb (Babl) of Bensia. The Raja of. Baraundha The Raja of. Baraundha The Raja of. Baraundha The Raja of. Barwani The Raja of. Barwani The Raja of. Barwani The Raja of. Dhori The Raja of. Dhori The Thakur Sahlb of Faddall (Schukra). The Sauttan of. Hispaw (or Thibaw) The Sawbwa of Karond (Kalabandi) The Baja of. Kongtang (or Kyaington) The Sawbwa of Kibichipur The Rao of Alshin and Socotra The Sultan of Lahej (or 34 Hauta) The Sultan of Lahej (or 34 Hauta) The Sultan of Lunawara (or Lunawara (or Lunawara (or Lunawara (or Lunawara) The Raja of Malor Kotla The Nawab of Nagori The Baja of Pelitans The Thakur Sahlb of Pelitans The Thakur Sahlb of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Raja of Vankaper (or Warkaner) The Raja Sahlb of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Savantwali The Sar Desai of Sar

#### Personal Salutes

### Salutes of 21 guns

Gwaller Honorary Major General His High ness Maharaja hr Hadho Rao Suidhia Haha dur 6 CS1 GUVO ADC LLD Maharaia of

Jalpur Honorary Major General His Highness Maharapadhataja Sur Sawal Madho Singh Bahadur 6031 GOLE 60VO, LL.D Maharaja of

Kolhapur His Highness Sir Shahu Chhatrapati Maharaj Gush Gun Guvo Lud Maharaja of

Mewar (Udsipur) His Highness Maharala dhiraja Maharana III Fatch Singh Bahadur G S S G V I S Maharana of

Travancov His Highness Sri Maharaja Baja Sir Bala Rama Varmu Hahadur 60.81 Gulk Maharaja of.

#### Salutes of 19 nuns

Cochin Hiz Highness Raja Sree Str Esma
Varmah 008.1 GCT R. Raja of
Miscore Her Highness Maharani Kempa
Andjarnmani Avaru Vanivilas C.I of
Yepal Honorary Major General His Excel
Ionev Maharajs Bir Chandra Shumshere
Jung Bahadur Bana 0 CB, 408.1 gCVO
DOL Prime Mishster Marshalof.

Jodapur Honotary Major General His High ness Maharaja Bahadur Sir Pratad Singin, G.S.I., G.O.O. K.O.B., A.D.O. Regent of Orchha. His Highness Matteraja Mahindra Sawai Sir Partap Singin Bahadur G.C.S.I. G.O.L.E., Maharaja of. Singin Bahadur G.C.S.I. G.O.L.E., Maharaja of. Singin Bahadur G.C.S.I. G.O.L.E., Maharaja of. Singin Bahadur G.C.S.I. G.O.L.E., Maharaja of. Singin G.C.S.I. Saluta of 13 guns Palanpur His Highness Nama Ranjit Singin of. Barwani Sir Singin of. Barwani Sir Sir Highness Shankar Rav Chinnaji Pant Sachiy of. Label (or Al Hauta) His Highness Sir Ahmad Padthi K.O.S.I. Buitan of. Makara Kotis. His Highness Ahmud All Khau Bahadur, Nawab of. Shehr and Mokalis His Highness Sultan of Salutas of 9 guns Kanker Maharajadhiraja Komal Deo of. Las Bela Mir Kamal khan Jam of Loharu. Kana Bahadur Kolle of Mudhol. Meherban Malojirao Vyankatrav Raje Ghorpade sivus Vana Sahrb of Dihala Amir Nasr Shaif of Local Salutes Salutas of 21 guas Bhopal The Begam (or Nawab) of Gwslior The Maharaja (Sundha) of The Begam (or Nawab) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of The Maharaja (Sundha) of Sundha of Sundha of Sundha of Sundha of Sundha of Sundha of Sundha of Sundha of Sundha of Sundha of Sundha of The Maharaja (Sundha) of Sundha of Sund	The Shelkh of Bahrein. The Shelkh of Abu Thabi  Salutes of 3 guns The Shelkh of Debal.
••• ••• •••	THE OFFICERS

## SALARIES OF CHIEF OFFICERS

The following are the tables of salaries ranctioned for the Chief Officers of the Administration of India. The tables are liable to variation and it should be noted that the pay of members of the Indian Civil Service is subject to a deduction of 4 per cent for subscription towards annuity.

aunury	Pay por	Annum
	, -	Ra
Viceroy and Governor General	2	60 800
Private Secretary to Vicercy		24 000
Military Secretary and Alde-de-Camp to Vicerov		18 000
Surgeon to Vicerov		14 400
Commander in-Chief of the Forces in India	1	00 000
Military Secretary to Commander in Chief in India		18 000
Members (6) of the Governor General's Council		80 000
President Railway Board	ac 000 08	
2 Members, Railway Board	0 001 01	48 000
Secretaries to the Government of India in the Army and Public Works and	Legisla	-000
tive Departments	. 202.02	42 000
Becretaries to the Government of India in the Finance Foreign, Home Rev	enue and	
Agriculture, and Commerce and Industry Departments	ende and	48 000
Secretary to the Government of India in the Education Department		36 000
Joint Secretary		30 000
Comptroller and Auditor-General		54 000
Controller of Currency	6 000 to فر	
2 Accountants-General, Class I	20 000 00	28,000
		30 000
3 II III		27 000
1 Commissioner of Northern India Salt Revenue		20 000
1 Director-General of Posts and Telegraphs	42,000 to	
4 Postmaniera-General	27 000 to	
FORGINAL OF THE PROPERTY OF TH	21 000 to	
1 Director Geological Survey of India	21 000 10	24 000
	D	23 000
Deputy Secretaries to the Government of India in the Finance and Foreign	Depart	27 000
ments	B-	27 000
Deputy Secretaries to the Government of India in the Legislative and B	ome no.	24,900
partments	00 000 Au	
Superintendent of Part Blair	30 000 te	20,000

	Pay per
	Annym.
	Ra.
1 Chief Commissioner of Delhi	88 000
1 Director, Criminal Intelligence	96 000
1 Deputy Director Oriminal Intelligence	18 000 to 24,000
Inspector-General of Forests	81,80u
Serveyor-General Survey of India	86 000
1 Chief Inspector of Mines in India	22,200
I Director-General Indian Medical Service	36 000
1 Sanitary Commissioner with the Government of India	24 (100 to 30 600
1 Director-General of Archeology in India	20 400
1 Administrator-General of Bengal	24 000
1 Director-General of Commercial Intelligence	24,000
1 ,, Indian Observatorics	18 000 to 24 000
Controller of Stationery and Printing	16 000 to 27 000
Controller of Stationery and Printing Governors of Madras, Bombay and Bengal	1.20 000
Private Secretaries to Governors of Madras Bombay and Bengal	18 000
Surgeons to Governors of Madras, Bombay and Bengal	12 000
Military Secretary and Alde-de-Camp to Governors of Madras, Bombay and	Bengal 12,000
Bishop of Calcutta	J9 976
Bishop of Madras	25 600
Bishop of Bombay	25 600
Chief Justice of Bengal	<b>-2 000</b>
Chief Justices of Madras Bombay and the North Western Provinces	<b>60 600</b>
Puisne Judges of the High Courts of (sicults (15) Madras (6) Bombay (6)	3) and the
North Western Provinces (6)	48 000
Chief Judge of the Chief Court Punjah	48 000
Butta	48 000
Judges of the Chief Court, Punjab (4) and Burma (4) except Chief Judges	42 000
6 Political Residents 1st class	48 600
9 2nd class	93 000
Pointi al Officers on time scale	6 400 to 28 800
	P 100 14 4 100
Provincial Salaries	
5 50 4 dl . 5 05 . 50	.,
A B—Acting and other allowances are not included in the miaries	3nown
Bangal	
4 Members of Council	84 000
1 Member of the Board of Revenue	45 000
5 Commissioners of Divisions	85 000
1 Chief Secretary to Government	40 000
3 Secretaries to Government	83 000
3 Under Secretaries to Government	12,000
1 Excise Commissioner	21 600
1 Chairman of Corporation of Calcusta	49 000
1 Deputy ditto	42,000
	12,000 to 18 000
1 Collector of Customs Calcutta	30 000
12 Magistrates and Collectors 1st grade	27 000
1B , 2nd	21 600
3rd	18 000
17 Joint Magistrates and Deputy Collectors, 1st grade	10 800
17 2nd	8 400
-Assistant Magistrates and Collectors	4 900 to 6 000
3 District and Sessions Judges, 1st grade	35 000
18 , 2nd	30 000
18 , Srd	24 000
1 Chief Judge, Presidency Courts of Small Causes	2, 600
4 Judges	( 12,000, 19 500
	/ 15 600 and 16,800
1 Advocate General	48 000
1 Soliditor to Government	60 000
1 Registrar High Court	20 400
1 Inspector-General of Police	30 000 to \$6 090
1 Director of Public Instruction	<b>24,000 to 30,000</b>
1 Private Secretary to H. 3 The Governor	18,000
1 Director of Agriculture	\$1,000
1 Director of Land Record	18,000
1 Secretary of the Bourd of Revenue	18,000
Bihar and Orissa	*
	- 00
1 Lieutenant Governor	1 00 000
2 Mambers of the Executive Council	60,000
3 Members of the Roard of Revenue	<b>42,00</b> 0

	Salaries of Chief Officers	533
_	<del></del>	
		Pay per Annum.
	Bihar and Orissa—contd	Ha.
1	Chief Secretary to Government	86 090
2	Secretaries to Government	27 000
15	Under Secretaries to Government	12,0(8)
9	Commessioners Magistrates and Collectors, 1st grade	35 900 27 000
O	2nd	21 500
1	Joint Magistrates and Deputy Collectors 1st grade	19 000 10 800
- 0	2nd	8 400
2	Amistant Magistrates and Collectors District and Sessions Judges - 1st gradi	4 Bix0 to \$ 000
5	District and Sessions Judges 1st gradi 2nd	36 000 30 000
- 6	3rd	24 000
1	Commissioner of Exclse and Salt Director of Land Records and Surveys	17 280 21 600
1	Director of Agriculture	21 600
	Inspector-General of Police Director of Public Instruction	30 KHU to 36 060
	Assem	24 000
1	Chief Commissioner	00 000
2	Commissioners	38 000
	Secretaries to Chief Commissioner Deputy Commissioners 1st grade	1⊀000 and 21 600 " 000
7	2nd	21 600
4	3rd Assistant 1st	18 000
4	2nd	10 800 8 400
-	3rd	5 400 — 6 000
	Under Secretaires to Chief Commissioner District and Sessions Judge	112 000 30 000
1	Inspector-treneral of Police	27 000
1	Director of Public Instruction Director of Land Records and Agriculture	1,000 to 18 000
i	Fxile Commence:	18 000 15 000
	United Provinces of Agra and Oudh.	200-1
1	Lieutanant Governor	1 00 000
	Chief Secretary to Government Members of the Board of Rovenne	36 000 42 000
2	Secretaries to Government	20 000 and 22 000
	Secretary to Board of Revenue Upder Secretaries to Government	22,000 12,000
9	Commissioners of Divisions	85 000
1	Commissioner for Kumson	30 000
19	Opium Agent Magistrates and Collectors, 1st grade	30 NOVE to 38 000 27 000
17	2nd	22,000
10	Deputy Commissioners 1st grade 2nd	22 000 90 000
15	Joint Magistrates 1st grade	20,000 12,000
	Assistant Commissioners 1st grade	9 890
	Joint Magistrates and Assistant Commissioners 2n 1 grade Assistant	4 RINI to 6 000
3	Deputy Commissioners for Kumaon	12 000 12 000 and 18 000
1	City Magistrate Lucknow Superintendent Dehra Dun	12,000
ī	Judicial Commissioner	18 000 42,000
2	Additional Judicial Commissioners District and Bessions Judges 1st grade	40 000
77	District and Bessions Judges 1st grade 2nd ,	36 000 30 000
	3rd	27 000
10 3	4th 5th	22,000 20,000
ĩ	Registrar High Court	19,300
1	Inspector-General of Police Director of Public Instruction	80 000 to <b>86 000</b>
-	Punjab.	24 000
	Lieutenant Governor	1 00,000
	Other Secretary to Government	<b>57,000</b>
*	Segretaries to Government	18 000 and 21,000

•	7.73	
_	Panjab—≀U	Pay per Annum. Ra
2	Under Secretaries to Government	12,000
ī	Under Secretary Police Department, and Inspector-General of Police Under Secretary, Educational Department	30 000
ī	Under Secretary, Educational Department	24 000
ž	Financial Commissioners	42 000
2		10 800 nad 8 400
3	Commissioners	3 <b>3 00</b> 0
	Deputy Commissioners 1st grade	27 000
14		21 600
14		18 000
ü		10,800
14		8 400
		4800 to 8000
89		33 000
2		30 000
4	2nd	27 000
.6		21 600
10		
10	District Judges	18 000
1	Sub-Judge and Judge Small Cause Court, Simila	15 000
1	Registrar of the Chief Court	15 000
1	Legal Remembrancer	24 000
ĺ	Inspector-General of Police	24 000
ĩ	Director of Public Instruction	24 000
•		
	Burma	
3	Mentenant Governor	1 00 000
ĩ	Chief Secretary to Government	96 000
	Secretaries	21 600
2		6 000
	Assistant Secretary	6 000
	Financial Communioner	42 000
	Bettlement Commissioner and Director of Land Records	33 000
•	Deputy Director of Land Records	19 200
4	Becretary to Financial Commissioner	12 000
		18 000
	Director of Agriculture	22 000
	Communication of Divisions	2" 000
17	Deputy Commissioners 1st gradu	21 600
13		
36	, 3rd	18 000
12		12,000
18		8 400
10		7 200
52	4th	5400 to 6000
1	Judielal Commissioner	42,000
28	Divisional Judges 1st grade	33 000
1	2nd	900 osk
2	3rd	27 000
2	4th	21 600
8	District	19 000
ĭ	Registrar Chief Court, Lower Burma	14 400
ī	Government Advocate	18 000 to 21 600
-		23 000 10 22 000
	Central Provinces	
1	Chief Commissioner	62,000
	Financial Commissioner	42,000
	Commissioners of Divisions	83,000
	Deputy Commissioners 1st class	27 000
ii	2nd	21 600
iŝ	3rd	18 000
10	Assistant 1st	10 800
10	2nd	8 400
ΤΛ		
5	3rd	
	Judicial Commissioner	42,000
	Additional Judicial Commissioners	36 000 and 33 000
	Divisional and Semions Judges	14 800 to 18 240
	District and Sessions Indges	14,000 and 20,400
1	Impector-General of Police	27 000 to 83 000
1	Director of Public Instruction	18 000 to 24 000
	Berar	
_		
1	Commissioner	88,000
	District and Sessions Judges	22,000 and 20 000

_			Berar-conid			Pay per Annum Re		
3	Deputy Commissioners	1st class				22 000		
23		-ud				20 000 15 000		
3	Assistant	3rd 1st				10 800		
3		2nd				8 100		
Madras								
3	Members of Council	D				64 000 45 000		
1	First Member Board of Second Member	Revenue				42,000		
ī	Third Member					30 000		
1	Fourth Member Chief Secretary to Gove	nmont				10 000 45 000		
î	Revenue Secretary to G					38,000		
1	Secretary to Governmen	nt				30 000 18 000		
1 2	Private Secretary to Go Under Secretaries to Go	vernor svernoent				12 000		
1	Secretary to Commission	ners of Land	Revenues		18 000	to 21 600		
$\frac{1}{22}$	Secretary to the Commi	astonurs of 18	lt die		18 000	to 21 600 to 86 000		
1	District Bild Free-10-16 9 C	inges			18 000	to 21 000		
1	Advocate General					21 600		
1	Government Solicitor Chief Judge, Small Cane	e Court				13 200 4 000		
ī	Recident in Travancore	and Cochin				33 600		
1	Insportur General of Po	Шьэ			30 00 <b>0</b>	to 36 000		
14	Collectors, 1st grade					27 000		
1	President Corporation of	of Madras				25 800		
17	Collectors, 3rd grade Sub Collectors and Join	- Wardstruto	lst grade			21 600 14 400		
16	Dan Concettie and additi	e magnetiates	2nd			10 800		
16	testet est dell'ester i	**	Jrd		1 200	8 400 to 6 000		
1	Assistant Collectors and Director of Public Instr				4 8(M) 24 UDO	to 30 000		
_			Bombay					
3	Members of Council		-			64 000		
1	Chief Secretary to Gover					45 000 87 500		
1	Secretary to Governmen	.6				30 000		
1	Private Sourctary to Go					18 000		
	Under Secretaries to Go Inspector General of Pri				21 600	15 000 to 24 000		
1	Inspector General of Pol	Цсе				to 86 000		
	Commussioners of Division	010.B			36 000 в	nd 42 000 45 000		
1	Commissioner in Sind Municipal Commissioner	Bombay				36 000		
18	Senior Collectors	20202,				27 900		
15	Junior Assistant Collectors 1st	remaile.				21 600 14,400		
17	2nd	d				10 600		
18	9rg				4 800	8,400		
7	Collector in Sind	3			4 500	to 6 000 21 600		
1	Assistant Commissioner	In Wind				18,200		
1	Judicial Commissioner in Additional Judicial Com		:l=.3			36 000 33 000		
	District and Sections Ju					30 000		
ß	n	2nd				27 900		
10	Prothonotary and Regist	Srd tran High Cou	nrf		20 400	21 600 to 24 000		
1	Administrator General a				24 000	to 30 000u		
	Registrar High Court	a Const				20 400 24 000		
	Chief Judge Small Caus Remembrancer of Legal					30 000		
1	Government Solicitor					30,000		
1	Advocate General Agent to the Governor is	kathlawer				24,000 36 000		
	Resident and Senior Poli					27 000		
28	Political Officers on time	scale of pay		5 400 to 10.200	& 11 400 i	to 23,400		
1	Director of Public Instru	IC4/09II			SALUMA() 1	to 80 000		

## Indian Orders

The Star of India.

The Order of the Star of India was metitated by Queen Victoria in 1861, and colarged in 1866 1878, 1897 1902 and 1911, and the dignity of Anight Grand Commander may be conferred on Princes or Chiefs of India or upon British subjects for important and loyal service rendered to the ladian Empire the second and third classes for services in the Indian Empire of not less than thirty years in the department of the Societary of State for India It consets of the Soverugn a Grand Master (the Viceroy of India) the first estand master (the vicercy of 1904s) the first class of forty four Knights Grand Commanders (22 British and 22 Indian) the second class of one hundred Knights Commanders and the third chas of two hundred Companions exclu-sive of Extra and Honorary Members as well as

certain additional Kuights and Companious The Inaguia are (i) the Coller of 50ld com-posed of the lottes of India, of paim branches tied together in saure of the united red and white rose and in the centre an Imperial Crown, all enamelled in their proper colours and linked an enamened in their proper colours and unseed together by gold chains (n) the Stat of a hight drand Commander is composed of rave of gold issuing from a centre having thereon a star of five points in diamonds resting upon a ends and inscribed with the motto of the Order B H the Maharaja of Ordhia

Hences Light our Guide also in diamonds. H II the Maharaja of Ordhia

Hences Light our Guide also in diamonds. H II the Maharaja of Algore

That of a knight Commander is somewhat field Misshal Viscount Kitcher

different, and is described below (ii) The H the Begum of Bhopal

Badge, an onva cameo having Her Majerty

Gueen Victoria s Royal Liftgy thereon act in a Sit Dennis Fitz Patrick

porterated and ornamental oval contained. motto of the Order surmounted by a star of five points, all in diamonds (rv) The Mantle of fight blue satin lined with white and fastened with a norden of white salk with blue and silver On the left side a representation of the Star of the Order

The ribbon of the Order (four liches wide for H. H. the Raja of Kaputthala nights Grand Commanders) is sky blue having H. H. the vizam of Hyderabad Enights Grand Commanders) as all blue having a narrow white stripe towards either edge, and a worn from the right shoulder to the left side A Knight Commander wears (a) around his neck a ribbon two inches in width, of the same colours and pattern as a Knight Grand Commander and pendent therefrom a badge of a smaller Nzc, (b) on his left breast a Star composed of rays of sliver issuing from a gold contro, having thereon a giver star of five points resting upon a light bine enamelled circular ribbon tied at the ends, inscribed with the motto of the Order in diamonds. A Companion wears from his left breast a badge of the same form as appointed for a Knight Commander but of a smaller size pendent to a like ribbon of the breath of one and a hell inches All Inagana are returnable at death to the Central Chancery or if the recipient was resident in India, to the Secretary of the Order at Calcutta

Severeign of the Order -H I M The Kme Grand Master of the Order - The Viceroy for the thine being Baron Hardings of Petriburat

Research English Grand Commanders (G.C. B.L.)
The Edges-Sulpan of Persia

Prince Louis d Arenbert

# Extra Knights Grand Commanders (G. C. S. L.)

H M the Quorn H B H The Duke of Counsught

## Knights Grand Commanders (G C S. I )

H H the Gackwar of Baroda

H H the Maharana of Loapur H H the Maharajah of Jatpur H H the Maharaja of Leavancore

The Marquis of Lansdowne Baron Reav

H H the Maharana of Jammu and Kashmir

The Barl of Clean

H H the Maharana of Kohlapur

II H the Maharaja of Gualior

ertail bud If H the Maharaja of Rusa

Baton Macdonnell

Il li the Maharaja of Idar Farl Curzon of Reddle-ton Baron Sandhurst

Lord Corne Hamilton H H the Raja of Cochin

Baron Ampaball

Waharaja Sir Chan Ira Shamsher, Jung of Nepal

Field Murshal Viscount Kitchener

Ir Dighton Probyn Baron Sydenham

Sir Arthur Lawley or John Henett

H H the Maharaji ( bikaner H H Mana Rao oi kotali

General Sir O Moore Creagh

H H the Age Llan
H H the Nawab of tonk

#### Knights Commanders (K.C. S. I.)

The Farl of Cromer

Str Joseph West Ridgeway bir Theodor Cras raft Hope

Sir William Cluchele Ploauen

Sir James Breadwood I vall

Sir Charles Haukes 1od Crosthwaite

It David Miller Barbour

Sir Andrew Richard Scoble For Phillip Perrs val Hutchins

Sir Hunry Ldward Stokes

Sir Henry Mortimer Durand Maj Gen Sir Oliver Bichardson Newmarch

ir Frederick William Pichards Fryer H H Maharao of Strohi

or Courtenay Peregrine Libert

Lieut tol Sir George Scott Robertson Sir William Lyskin: Ward

Brig Surg Lethbridge Surg Lieut Col Sir Alfred Swaite

H H Maharao of Bundl

our Edward Charles Buck

Sir William Mackworth Young

Sir Charles James Lyall Sir Robert Juseph Grosthwaite Sir William John Cunningham

Sir Bichard Udny Colonel Sir Howard Mellis Sir Arthur Charles Trevor Sir John Frederick Price Sir Charles Moutgomery Bryaz Sir James Digges La Touche Lieut Col. Sir David William Leith Burr Bir Henry John Stedman Cotten Bir Henry Martin Winterboths m Bir James Monteath Lieut -Col. Bir Donald Robertson Bir Andrew Henderson Leith Fraser our Andrew Henderson Leith Fraser Rir Bugh Shakespear Barnes Sir William Rice Hooper Coll Sir Collin Campbell Scott Moneriest kunwar Sir Ranbir Singli of Latinis Sir Arundul Tagg Arundul Sir Thomas Raleigh H H Thakur Sahib of Bhaynagar Bir Arthur Henry Temple Martindale Bir James Thomson Sir Joseph Bampf, life Fuller H H Raja of Chamba Lieut-Col. Arthur John Baron Stamfordham Sir Thomas Wullam Holderness bir Lancelot Hare Sir Charles Stuart Bayley H H Raj Rana of Jinlawar Raja Sir Tasadduk Rasul Khan of Jahangtrabad Oudh Sir John William Pitt Muir Mackenzie Yawab Bahadur Sir Khwaja Salhmulla of Dacca Sir James Wilson H H Maharaja of Alwar H H Raia of Jind Sir Henry Etle Bi hards Sir Gabriel Stokes Siz George Stuart Forbes H. H. Raja of Ratlam James Lyle Baron Inchespe Sir Harvey Adamson Gen Bir Beauchamp Duff Nawab of Mursi illahad Lieut. Col. Sir James Robert Dunlop Smith Sir John Ontario Miller Sir Lionel Montague Jacob Sir Murray Hammick Sir krishna Gobinda Gupta Bir Leelie Alexander Schim Porter Sir Spencer Harcourt Butler Sir Robert Warrand Carlyle Bir Regunald Henry Craddock
Bir James McCrone Donlo Bir James Scorgie Meston Sir Benjamin Robertson Fir Richard Amphlett Lamb Maharajadhiraja of Burdwan Fir Elliot Graham Colvin Sir Tre redyn Rashleigh Wynne Surg Gon Sir Charles Pardey Lukis Pir George Casson Walker H H Raja of Dhar H H Raja of Dewas State (Scolor Branch) Surg Gen Sir Francis Wollaston Trever H H Maharaja of Bhutan Sir John Nathaniel Atkinson Sir William Thomson Motison Sir George Head Barclay
Lieut. Gen Sir James Wilcocks
Lieut. Col. Sir G. Roos-Keppel
Sir M. F. O Dwyse
Sir Saly d All Imam

Sir D. C. Balthe Sir Michael William Fenton Sir Harold Arthur Stuart Colonel Sir Stingy Gerald Durrard Sir William Henry Seloman Major Gent Sir W. R. Birdwood

Companions (C S L) Lieut Col William Dickinson Gen Sir Peter Stark Lumsden Major-Gen. Beresford Lovett Major-Gen Phillip Durham Henderson Col Leopold John Herbert Grev COI Leopoid John Henert Urw
Au George Unitsopher Mole worth Birdword
Major Gen Henry Wyll
Sir Henry William Primross
Herbort John Reynolds
Lleut-Gen Michael Weeks Willoughby
Raja Pint Mohan Muharji of Uttanjara
Sir Frederick Russell Hogg
Gol Chorles Edward (ol Charles Fdward Xate William Rudolph Henry Merk Reo Chiatrapati Labadur Janirdar of Allpura Col John Clerk James Blohant Kaylor David Brbert Lyall Sardar Jiwan Buigh of Shahandpur Col. George Herbert Trivor Col. Frederick J. Home Lieut Col Henry 8t Patrick Maxwell Sa Jervoise Athelstant Barres Sir Thomas Salter I viv. Alan Cadell Arthur Fortes Sir Arthur Upton Fanshawe Col George Fletcher Ottley Boughey James Fairbairn Finlay Joseph Parker Charles Walter Bolion Horace Frederick D Oyly Moule Surg Gen James Cleghorn Col Thomas Gracey Col James Aloysius Milev Sir Henry Babington Smrth Sir Henry Babington Smith Henry Alken Andrews Lleut Col Sir Arthu Henry McMahon Sir Henry Evan Murchison James James Knox Spence (harles William Odling Alexander Wallmestey Crulikshank David Norton Thomas Stoker Col Maule Campbell Brackenbury Sir Edward Richard Henry Lucas White King Sir Mackenzio Daizell Chalmers Surgin Gen David Sinclau Henry Farrington Evans Lt.-Col. John Muir Hunter Richard Gilles Hardy Sir Frederick Robert Upcott on greature nover o protect Herbort Charles Fanshawe Sir Frederick Styles Philpin I sly George Fobert Irwin Lieu. Gen. Sir George Lloyd Reilly Richardson Robert Burton Buckley Arthur Frederick Cox Charles Gerwien Bayne Hartley Kennedy Sir Edwin Grant Burls Major-Geo Trevor Bruce Tyler
William Churles Macpherson
Lt.-Col. James Alexander Lawrence Montgomery

Lt. Gen Henry Doveton Hutchinson

Lieut.-Col. Sir Hugh Daly Bala of Burdwan Newab of Paheeu Sardar Baden Singh of Malaudh Sir Thomas Gordon Walker Col. James White Thurburn Alfred Brereton Milliam Thomas Hall
Richard Townsend Greer
Lol. Robott Henry Jeannings
Sir Louis William Dence
Sir Alfred Macdonald Bultesi Irwin Lt.-Col. James Bird Hutchisson Raja Ram Pal of Kotlehr Hermann Michael Klach Bir Cecil Michael Wilford Brett Herbert Bradley Sir Frank Campbell Gates John Mitchell Holms Percy Seymour Vessey Fitzgerald Lt.-Col. Willoughby Pitcalra kennedy Rata Narendra Chand Arthur Delaval Younghusband Occar Theodore Barrow Col. Howard Guad Col. Howard Glad
Francia Alexander Slacke
Salyid Flussin Bilgram!
Peroy Comyn Lyon
Algerion Robert Sutherland
Sir George Watson Shaw
William Arbuthnot Ingils
Romer Edward Yongshusband
Col. Webert Multich Romer Edward Yotinghusband
Cul Herbert Mullaiv
John Alexander Broun
Col Henry Finnis
Maharaj Bhairon Singh
Maj Geo Bir Alfred William Lambart Bavly
Maurice Walter Fur Strangwaya William Lochiel Bapte Loveti Cameron Sir Edward Douglas Mar lagun Bala Madhe Lal John Stratissien Campbell John Stratissien Berbert Str Asbudosh Michaell Maj Gen 'di Henry Montague Pakington Hawkee Dr Rash Beharl Ghosh DI MARI BURKET OFFICE Francis Capel Harriston Liout Col. Sir Percy Zachariah Cox Comdr Sir Hamilton Pym Freet-Smith Andrew Edmond Castlestuart Stuart Brig Gen William Eddell Hirdwood Norman Goodford Cholmol y
Walter Francis Rice
Alexander Gordon Cardey Sir Frederick William Duke Havilland Le Vesurier Chaud Hamilton Archer Hill Cell Edward Francis Bunbury
Cel. Reginald Henry Mahon
Lieut.-Col Alexander Fleetwood Pluhey
Capt Allen Thomas Hunt
Walter Badock James Mollison Pirajirao Bapu Sahib Ghatge Robert Woodburn Gillan John Walter Hoss Charles Ernest Vear Goument Clearing Ermest Very Gouldent Harrington Verney Lovett Herbert Lovely Eales George Gilbert White Fredarick Beadon Bryant Lieut Col. Herbert Lionel Showers Prank George Sty

George Moss Harriott Ernest Herbert Cooper Walsh Edward Vere Levinge Robert Nathan Arthur Meredith Lieut -Col. Charles Archer James Peter Orr Herbert Alexander Carson William Axel Hertz Valuedev Bhaskal Chaubal Heorge Seymour Curtis William Henry Clark Litut Colonel Francis Aylmer Maxwell Major Clive Wigram Herbert Thompson Rao Rahadur Nanat Chand Surgeon General Wilson Burney Bannerman Lieut Col John Ramsay Hett vol John Kanisav Situart Leckwood Maddux Gilbert Chomas Walker Lieur Col Phillip Lichard Thornhagh (urdon Khan Zulfhar Ali Khan of Maler Koila Col George Francis Angelo Harris Elmund Vivian Gabriel John Stuart Donald Henry Montague Segundo Mathews Arthur Crommello Hankin Bandoouji Jamahedji Maulyi Ahmad Hussam Horace Charles Mules HOTELS HARDES BAUE'S
H H Baja Bije Oband Chief of Kahlur
Licut Loi Arthur Russoll Aldridge
Licut Col. Mathew Kichard Henry Wilson
John Charles Ba. nham of Thomas Franci Bruce R may Tally our Michael Kennedy Thakor karansinghii Vajirajii Meherban Mudhojirat Jaurao Valk Nana Nim balkar Licut Col Alain Chartier de Lotbiniere Juty de Lothluluro Prig ton Herhert Vaughan Cox Broy Col Robert Smelton Maclagan Lieut Col Charles Mowbray Dallas Edward Henry Scamand 1 Clarke Jagadish Chanirs Bose Atbus 41 Daig Oswald (ampboll Lees Lt. Col G G Giffard F W Johnston William Henry Lucas L. Saunders Yakhateinghji Kesrlainghji Paul Gregory Milltus Lieut -t.ol. Albert Edward Woods William Exall Tempest Bennett Hon Mai Sahibzada Obaidullah Khan William Ogilvie Home Pazhamaneri Sundaram Alyar Sivaswami Alyar William Harrison Moreland, O.L.R Edward Albert Gult, C.L.R Diwan Bahadur Chaube Raghunath Das of Kotah Rocan Col. Lestock Hamilton Reld Surg Gen Henry Wickham Stevenson Hon. Lieut, Col. Raja of Lambagraon Lionel Davidson George Carmichael
Lieut -Col. Donald John Campbell MscNabb
Lieut -Col. Henry Walter George Cole
Stuart Mittord Fraser Henry Venn Cobb Behari Lai Gupta Henry Wheeler

P W Newmarch
Sardar Daijit Singh of Juliunder
Lt-Col Ba, Kumar Bir Bikram Singh
Walter Maude
Bertram B Carev
Michael Aethersole
Henry Ashtnooke Crump
William James Beid
Mysore hantharaj Urs
O V Bosanquet
Walter Gunnell Wood
John Cornwalls Godies

OFFICERS OF THE ORDER

Secretary Lieut Col Sir A H McMahon Registrar Col Sir Douglas Dawson

# The Most Eminent Order of the Indian Empire

This Order Instituted by H M Queen Victoria, Empress of India, Jan 1st 1878 and extended and enlarged in 1886 1886 1892 1897 and 1992 is conferred for vervice rendered to the Indian Empure, and consists of the bovereign a Grand Master thirty two Knights Grand Commanders (of whom the Grand Master is first and principal) ninety two Knights Commanders and an indefinite number of Companions (not exceeding without special statute 20 nomina tions in any one year) also Extra and Honorary Members over and above the varancles : sused by promotion to a higher class of the Order as well as certain Additional Knights and Companions appointed by special statute Jan 1st 1999 commemerative of the 50th Annavarsary of the assumption of Crown Goyt in India.

The Insula are (i) The IOLLE of gold, formed of elephants lotus flowers peacock in their pride and Indian roses in the centre the Imperial Crown the whole linked together with the kings (ii) The Star of the Anight Grand Commander comprised of five rave of silver having a small law of gold between each of them the whole alternately plain and scal of lating from a gold centre having thereon Her Majesty Queen Victorias Boyal Effige within a purple circle edged and lettered gold insurbed Imperial trown gold, (iii) The Badus consisting of a rose enamelied guien barbed vert and baring in "the centre Her Majest? Queen Victoria showl Kfige within a purple circle edged and lettered gold inscribed Imperial Crown also gold (iv) The Maythe is of Imperial crown also gold (iv) The Maythe is of Imperial crown also gold (iv) The Maythe is of Imperial crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold (iv) The Maythe is of Imperial Crown also gold taxels attached (ii) the Order (iii) and in the left side a representation of the Star of the Order

A Knight Commander wears (a) around his neak a ribbon two inches in width of the sencolour (purple) and pattern as a Knight Grand Commander pendent therefrom a beinge of smaller size (b) on his left breast, a star aimflar to that of the first class, but the rays of which are all of allver

The above mentioned Insignia are returned at death to the Central Chancery or if the Enight was resident in India to the Secretary of the Order at Calcutta

A Companion wears from the left breast a badge (not returnable at death) of the same form as appointed for a Knight Commander but of smaller size pendent to a like ribbon of the breadth of one and a half inches.

Sovereign of the Order —The King Emperor of India.

Grand Muster of the Order -Lord Hardings.

#### Honorary Knights Grand Commanders (G C. I. E.)

The ar-Emperor of Kores

# Extra Knight Grand Commander (G. C. L. E.)

The Duke of Connaught

Lord Reav

Knights Grand Commanders (G C LE.

The Ban of Cutch Lord Lansdowne Lord Harris The Nawab of Tonk Sir James Lvall Lord Elgin The Wall of Kalat Lord Sandhurst Maharaja of Karauli Thakur Sahib of Gondal Thakur Sahib of Morvi Sir George Faudel Phillips
The Maharala of Benares Sir Sher Muhammad & han of Palaunur Lord Curzon of Keddleeton The Maharaja of Jaipur The Maharaja of Orchha Lord Amptiall Mahamo of Bundl General Vir Alfred Gaselce The Maha Rao of Strohi The Age Khan
The Maharaja of Fravancore Lord Lammgton The Begam of Bhopal Str Edmond Ellis The Nawab of Junilia Sir Walter Laurenco Sir Arthur Lawley The Maharaja of Bikanor The Maha Rau of Kotah Lord Sydenham Lord Kitchener The Nawab of Rampur Maharaj Bir Kishen Parshad Lord Carmichael Maharaja of Lashnur Sir Louis Dane Maharaja of Bobbul Lord Stamfordham Sir Guy Fleetwood Wilson ir John Jordan The Maharana of Udaipur The Maharaja of Patiala The Mir of Khairpur The Rala of Cochin The Nawab of Dacca Lord Pentland The Raja of Pudukottal Lord Willington Maharaja of Kolhapur Maharaja of Venkatagiri The Luxareta of My Cic

Bhutan

# Honorary Exists Commanders

Sir Leon E Clement Thomas H B Sir Russein Kuli Khan Mokhber-ed Dowlet Sk Sven Hedin The Shelkh of Mohamerah Gen Sir Albert Houtum Schindler The Shelkh of Kowelt The Sultan of Shehr and Mokalla

## Knights Commanders (K. C. L. E.)

Bir Alexander Mesdows Elendul Mir George Christopher Molesworth Birdwood Surg-Gen Sur Benjamin Simpson Bir Albert James Leppoo Cappul Sir Donald Mackenzie Wallace Bir Alfred Woodley Croft. Sir Bradford Leslie Sir Arthur Nicolson Bir Guildford Molesworth Sir Frederick Bussell Hogg Rais of Venkstaulri Sir Henry Mortanica Durand Bir Arthur George Macplicrson Sir Heary Stuart Cumpingham Bage of Lunewata bir Roper Lethbridge Sir Edward Charles Lavli Olivant Sir Henry Hoyle Howorth Bir Henry beymour king Bir John Lamberi Baron Inchespe Col. Sir Henry Revenshaw Thullier Sir Wm R Brooke Maharaja of Gldhaur Lleat.-Col Sir Adelbort Cecil Inibot Ament don Sir Adelbort Ceed In Maj Gen Sh Thomas Depochy H H Maharaja of Ajaigari) Sir Heary William Blue Nawah of Lohanu Col. Sir William Blaset Sir John Jardine Rear Admiral Sir John Hext Bir Mancherice Bhownagereo Col. Sir Phomas Holdich Sir Arthur Wilson Sir Andrew Wingats Raja Sir Harnam Singh Abhrealla Sir S Subramaniya Aiyar Bir Alexander Cunninghain Sir Henry Evan Murchson James Nawab Sir Shahbar Khan Bugti of Baluchi

Bir James George Scott Maharaja of Darbhange Col Bir Samuel Swinton Jacob Sir Lawrence Hugh Jenkins Bir Rerbert Thirkell White Sir Frederich Augustus Nicholson Sir Frederich Augustus Nicholson Sir Arthur Upton Fanshawe

REAL

our arthur opton annuage Raja Dhiraj of Shahpura Sir Gangadhar Rao Gancah Chief of Miraj (contor Branch)

Sardar Sir Ghans Bakhuh, Raisani Brevet-Col. Sir Buchanan Scott Col. Six John Walter Ottley H E Raja of Sallana

Bur Fredric Styles Philpin Lely Lt &O Sir Arthur Henry McMahon Gen Bir Donald James Sim McLeod Maharaja of Balrampur Sir Francis Whitmore Smith Rayson H H. Haja Sur Bane Singh Bahadur Sir Ihomas Gordon Walker Sir Arthur Naylor Wolkaston Sir Thomas Heary Holland Navab or Hyderabad Lieut Col Sir George Olaf Roos Keppel H H Maharajadhiraja of Kishangarh Rais of Mahmudabad Sir Trevredyn Rashleigh Wynne surg Gen Sir Gerald Bomford Sir Richard Morns Dane Maharajadhuraja of Burdwan Rais of Poonch Prince Ghulam Nuhammad Ali Khan Bahadur 3h William Stevenson Meyer Bir Wilhelm Schlich Sir Theodor, Morton Mat Cen Sir Robert Irvin Scalion air John David Reas Rear Admual Sir Edmond John Warre Slade Sir John Buiton Air Frederick William Dake sir Archdale Carlo Sir Charles Stewart Wilson Maj Gen Fit Maloodin Henry Stanley Grover Bir Charles Bantt Gleveland Lucut -Gen Bir Douglas Hang Lucut -Ol, Sin Hugh Daly Sir Henry Parsall Burt Sir Junes Housemayne DuBoulsy
Sir Rajendra Nath Mukharji
Lieut Col Sir Henry Beauto, Thornbill Sir Gangadhar Madho Chitaryls H H Nawab of Jaora State H U Raja of Sitaman State Raj Sahib Sir Amarsinhji Banesinhji (\*ankaner) Sir Ram Krishna Gopal Bhandarkar Sir Michael Filose Rear Adra Sir Cohn Richard Keppel Sir John Stanley
Sir Sant-Hill Eardley Wilmot
Col Sir Percy Zechariah Cox
Sir Francia Edward Spring Maharaja Bri bir Vickrama Deo Rana Sir Sheoraz Singh (UP) H H Maharaja of Alwar H H Maharawal of Partabgarh H H Raja of Rajpipla Diwan Bahadur Sir Seth Kasturchand Daga H H Maharaja of Bijawar State Bundelkhand Gen sir Mowbray Thomson Sir John Twing 3lr George Abraham Grierson Sir Marc Aurel Stein May Gen bir Wrances. Honry Ratherford Drummond H. H. Maharawal of Dungarpur Newab Sir Bahram Khan Sir Heary Alexander Kirk Bir Alfred Glibbs Bourne Chief of Jamkhandi Sir Frank Campbell Gates

Sir George Macartricy

Lieut. Col Sir Frances Edward Younghashand Major General Sir James R. L. Macdonald Sri Sir Ugyen Wangchuk, Tongas Penkop of

Sir Edward Douglas Maolagau Mal.-Gen Sir George John Younghusband Sir Brain Hearton. Maharaja of Dinajpur Sir Stephen George Sale

Ex-Officio Companions (C. I. E.)

The Rari of Cromer Sir Courtenay P Ilbert Sir Theodore C Hope

Honorary Companions (C. L E.)

Laurent Marie Entile Besuchamp Jean Etienne Justin Schneider Hall Mohammad All Bals ut Tujjar James Carruthers Rilea Ewing Sheikh Abdulla Bin Rea

Companions (C | E.)

Richard Kaye Puckle Lieut, Gen. Sir Henry Moore Ges. William Gordon Thomas Mitchell Gibbon George Smith Col John H Rivett Carnac Roscoe Bocquet Lieut-Gen James F Tennant Pierre Francois Henri Nanquette Stephen Paget Watter Vyvyan Luke Sir Charles James Lyall Charles Edward Piuman Richard Isast Bruce Sir Stenart Colvin Bayle; Lient.-Col. Charles William Owen George Felton Mathew Hony Col John Robertson Sir Henry Christopher Mance Henry George Leene Mai-Geol Thomas Ross Church Thakur Bichu Hingh John Feithfull Fleet Roy William Miller Benjamin Lewis Rice Cot. Robert Parry Nisbet James Burgess Mortimer Sloper Howell Bai Bahadur Barat Chandra Das Maj Gen Viscount Downe Prederick Charles Kennedy Sir George Watt M.B 51f Grooffe Wath M.B. Liest Gen Augustus Le Messuricr Joseph Ralph Edward John Royle Ral Mehta Punus Lalji Lieut Col Frederick D Ralkes William Wordsworth Henry Montagu Matthews The Rt. Hon Salyid Ameer All William Lance Methland William James Mattland Col, Charles Wemyss Muir Sir Frank Forbes Adam Frederick Thomas Granville Walton Major-Gen Charles Smith Mackenn Major-Gen James Cavan Berkeley Charles Henry Tawney Henry Irwin
Arthur H Hildebrand
Bir James L. Walker
Surga. Maj John Findlay
Rayner Childe Barker Legit, Col. Charles Henry Ellison Adamson Col. William Morrisan R.E. Gen. Wilham Percival Tonaklus Berthold Elibentrop Langton P. Walsh

Jeremiah G Horafall Edmund Neel Lieut, Col Sir George L. Holford Maj Gen L. R. E. Tucker James Edward O Conor Col Thomas Holbeln Hendley Ernest Octavius Walker Sir John Prescott Hewett Mancherii Kavasii Mursban hhan Bahadur Frederick C Daukes Frederick C Dankes Lean Col Henry Fercy Poingdestre Leigh Sir J Bamptylde Fuller George Pringte Rose Diwan Campat Bal Sir William Turrer Thiselton Dyor William B Orthem Major Geo G F L Marsimil Bertram B Carcy Lient Gen Sir G L. R. Richardson Paul Gregory Melitus Col Errest H Fenn Lt Col Su Richard Carnac fomple Edward C S George Robert W L H Vincent Lt Col J Manners Smith John Stuart Pounds
(o) Frank William (hatterton Sri Ram Blukan Jatar fazulbhai Vi-ram Col H S Jarett Arthur C Hankin Adam G Lytler Charles F Buckland Alexander B Patterson Harry A. Adworth Col C A Porteous Col C I Lane Sir Sfeyning W Bdgctlev Maulyi Abdul Jabbar Khan Bahadur (a) W R Yeilding Henry J Stanson Air Patrick Flayfalr Frederick John Johnstone Col. Samuel Harlett Browne Dr Rash Behati Choch Frank Henry Cook Francis Erskine Dempster Lieut tol John Shakespear Lieut tol James John Madood Capt. Norman Franks Sir William Barnshaw Cooper Maharaj Rajashri Sankara Subbaiyar Khan Bahadur Kaoroji Pestonji Yakil Col, Russell Richard Pulford Col Algernon George Arnold Durand Gen Sir Beauchamp Duff Col. Bobert Alexander Wauhope Edwin Darlington J Strachan Dr Waldemar M Haffkine Dr Augustus Frederick Rudolf Hoernie Rustamil Dhanjibhai Mehta Charles Godolphu William Hastings Khan Babadur Mancherji Bustamu Dholu Col. John Charles F Gordon Charles Stewart Crolo Sir Benjamin Robertson Duncan James Macpherson John Campbell Arbuthnott Sir Robert Warrand Carlyle Henry Leoil Ferard

Gerald Present Kentinge

Lieut -Col Edward Charles Bayley Rai Bahadur Lala Shee Pranad Frederick William Johnstone Hat. Arthur Louis Bickford Edward Gelson Gregson William Malcolm Halley Col. Benjamin William Marlow Ferbert Gerald Tomkins Henry Whitby Smith Major Francis Beville Prideaux Major Arthur Prescott Trevor Lieut.-Col Ramsav Frederick Clayton Gordon Lieut.-Col Charles MacTaggart Nawab Mirza Mahdi Husain Rai Kishan Shah Bahadur Hopetoun Gabriel Stokes Lieut. Col Leonard Rogers Nawab Muhanupad Abdul Malid Ludovic Charles Porter Henry Starp Arthur Venis Mahamahopadya Hara Prasad Shashtri 14.-Col. Allan McConaghev Nawab kalsar Khan Chief of the Wagassi Tribe Rai Bahadur Diwan Jamist Rui Robert Charles Francys Volkers Henry Hubert Handen Alexander Muirhead Alexander Emanuel English George Frederick Arnold Maung Myat Tun Aung George Cunningham Buchanan William Rucker Stateman Edward Robert Kaye Blankinsop George Sanky Hart Nawab Muhammad Salamullah Khan Bahadur Rawab Muhammad Sataminan Anan i Jaghdar of Decighat John Henry Kerr Col George Henry Evans Lieut.-Col Henry Burden Eaharais Raghmath Singh of Dhasuk Gootge Wilham Kuchler John Shest Cumning Rev John Anderson Graham Francis Hugh Stewart Louis James Kershaw William Taylor Cathcart Maneckjee Byramjee Dadabhoy Haga Murray Bayal Rao Raja Raghunati Raja Raghunath Rao Dinkar (Gwallor) Pandit Kalins Natayan Haksar Lieut Col Ernest Douglas Money Major Hugh Roderick Stockley Mokshagundam Visvesvaraya Lieut, Col. Richard Godfrey Jones Jaghinlar Destaj Urs Major Armine Brereton Dew Diwan Bahadur Diwan Amer Nath (Kashmir) Licut.-Col. James Reed Roberts Licut.-Col Lawrence Impey Col Alexander William Macrae Arthur Ernest Lawson Albion Rajkumar Banerji Major Proderick Fenn Kiwes Col. William Burgess Wright Col. William Burgess Wright
Casifi Archibald Smith
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Sardar Shamsher Singh, of the Find State
Col. Silbert Walter Pain
Liest-Col. Bobert Edward Pemberkun Pigott
Liest-Col. William Daniel Heggy

teriam greeces a causage Major John Giennie Greig Sardar Naoroji Pudamji Vala Laksman Meram Chief of Thana-Devil Claude Alexander Barron Leonard William Reynolds Lt Col Percy Molesworth Sykes Charles Archibald Walker Rose Major Arthur Dennys Gebert Bansay Major Rudolph R. T. Hogg Capt. John Mackenzie Pierce Langrishe Moore Alfred Chatterton Major Arthur Aberromby Duff 1t (of John Lawrence William ffrench Mullen Bernard Coventry Albert John Harrison Richard Hamilton Campbell Rao Bahadur Bangalore Perumai Annaswami Mudallar Sidney Kilner Levett-Years Frederick George Wigley Prafulla Chandra Ray Col Francis Raymond
Col Michael Joseph Tighe
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W C Ashmore
Major Blackham
P R. Cadell
Capt. W L. Canaphell
Major G S Crawford
W O M. Dundas
Lt.-Col V N Hickley
H. F Howard
J H. Lace
L Mercer

Bhupendra Nath Mitra A. P Muddiman J R. Pearson H L. Stephenson Major H B St. John J H. Stone Abanindra Nath Tagore Major G K Walker C C Watson Hugh Edward Clark Peroy James Mead Deba Proced Sarbadhikari Frank Charles Daly Mir Soams Shah Khan Bahadur Hall Bukhsh Ellahie Khan Sahib Frank Edwin Gwyther James Gargtave Covernton Louis E. B Cobden Ramsay William Pell Barton George Batley Scott Rangnath Namungh Mudholkar Hebbalaju Veipamur Nanjundayya Major James Curry Robertson William Sinclair Marris George Frederick Buckley Major J D E Holmes Raghunath Venkaji Sabnia Lieut Col William Molesworth Phillip Glynn Messent Lelubhai Samaldas Metha Leonard Birles Mohendranath Ray Frank Frederick Lyall Lieut, Col. George James Hamilton Bell. Frank Curne Lowis Lewis French Col. Sidney Mercer Renny Cupt Welter Hugh Jeffers Richard Meredith Albert Howard Major E D Wilson Greig Haro'd Arden Close Richard Hugh Tickell Francis Samuel Alfred Slorock Lieut Col Fitz Warren Lloyd Major Arthur Leslie Jacob Nawab Khair Baksh Khan Bahadur Thomas Summers Henry James Wakely Fry C D J Carmichael Kiran Chandra De Frank Willington Carter Charles Montague King shiekh Rais Husakin Khan Bahadur Edward Rawson Gardiner George Thomas Bartow Frederick Samuel Philip Swann Berkeley John Byng Stephens Mr Kamal Khan Jam of Las Bela Kalat Captain Waiter Lumsden Colonel Dewan Bishan Das (Jammu and Ka)h mir) Mager Frederic Gauntlett Major Samuel Richard Christophers Colonel George William Patrick Dennys William Peter Sangster Capt William Henry Irvine Shakespear Montague Hill Capt Frederick Marshman Bulley Sahibsada Abdus Saroad Khan of Rampur

## The Imperial Order of the Crown of India,

This Order was instituted Jan 1, 1878 and for a like purpose with the simultaneously created Order of the Indian Empire It consists of the Queen and Queen Mother with some Royal Princesses, and the female relatives of Indian Princes or of persons who have held conspicuous offices in connection with India. Badge the royal cipher in jewels within an oval aumounted by an Heraldic Crown and attached to a bow of light blue watered ribbon, edged white. Designation, the letters C I

#### Sovereign of the Order THE KING EMPEROR OF INDIA.

Ladies of the Order (C. L.) Her Majesty The Queen H M Queen Alexandra H M the Queen of Norway H R H the Princess Royal H R H the Princess Victoria H R H the Princess Christian of Scholeswig Holstein
H R. H the Princess Louise (Duchess of H R. H the Princess Louise (Duchess of Argyll)
H R H Princess Henry of Battenberg
H I and R. H the Dowager Duchess of Saxe-Coburg and Gotha
H R. H the Duchess of Connaught
H R. H the Duchess of Albany
H R. H the Duchess of Cumberland
H R. H the Princess Predericks Baroness of you Pawel Rammingen
H R. H the Princess Predericks Baroness of the Research of the Princess Production of the Princess Production of the Princess Predericks Baroness of the Research of the Princess Predericks Baroness of the Princess Predericks Baroness of the Princess Predericks Baroness of the Princess Predericks Baroness of the Princess Predericks Baroness of the Princess Predericks Baroness of the Princess Predericks Baroness of the Princess Princ H R H the Dowger Grand Duchess of Mccklenburg Strelltz H R H the Princess Ferdhand of Boumanis H I and R. H the Grand Duchess Cyrll of Russia H R. H the Hereditary Princess of Hobenlohe-Langenburg

B. R. H the Crown Princess of Sweden

H. R. H the Princess Patriols of Connaught

H. R. H the Princess Victoria Elizabeth

Augustine Charlotte, Hereditary Princess of Saxe-Meiningen

H the Princess Victoria of Schleswig HH Hobstein H. H the Princess Marie-Louise of Schlesnig-Holstern Baronesa Kinkosa Dowager Counters of Mayo Mrs. Charles Coates Lady Jane Emma Orighton Downger Counters of Lytton Dowager Baroness Lawrence Lady Temple Dowager Baroness Napler of Magdala Lady Grant Duff Dowager Marchioness of Dufferin and Ava Mrs. George Comwallis-West Baroness Resy H H Maharani of Cooch Behar Marchioness of Lansdowne Mannoness of Lancowne.

Baroness Harris
H. H. Maharani of Gwallor
Constance Mary Baroness Wenlock
H. H. Maharani Sahib Chimna Bai Gackwar
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# THE KAISAR I HIND MEDAL.

This decoration was instituted in 1900, the preamble to the Royal Warrant—which was amended in 1901 and 1913—being as follows — Whereas We, taking into Our Royal consideration that there do not exist adequate means whereby We can reward important and useful services readered to Us in Our Indian Empire in the advancement of the public interests of Our said Empire, and taking also into consideration the expediency of distinguishing such services by some mark of Our Royal favour Now for the purpose of attaining an end so desirable as that of thus distinguishing such services alwassid, We have instituted and create a farcesid, we have instituted and create and Successors, do institute and create and Successors, do instit

Boripients of the 1st Class.

Abdus Samad Khan of Bampur
Ahmad Khan Bahadur Qazi Khahi ud Din
Albust, The Rev Samuel Boott
Amarchand, Bao Bahadur Rammarayan
Ampthil, Margarot, Baroness
Askon, Albert Frederick
Barber, Benjamin Russell
Barnes, Major Ersest
Beaty, Francis Montagu Algernon
Beck, Misa Resma Josephine
Bell, Lt.-Col Charles Thorhill
Bemon, Lady
Bentley Dr Charles Albert
Bandari Bai Bahadur Gopal Dae
Bilkamir, Maharaja of
Bingley Brig. Genral Alfred
Biwalkar Barder Franchram Krishnajao
Biwalkar Barder Franchram Krishnajao
Booth Tucker Frederick St. George de Lautour
Bosanquet, Oswald Vivian
Boso, Dr Kalhash Chandra
Bramley Parcy Brooke
Bray General Deays DeSaumares in Balu
chistan
Broadway Alexander
Bruntou, James Forest
Bachanan, Rev John
Barn, Elebard
Bannett, General Sir Charles John
Campion, John Montilou
Candon, John Montilou
Cardon, Missess Bradford
Cartyle, Lady
Carten, Edward Cark
Charles Mai Balashur Mari Mahan

Cox, Arthur Frederick Crawford, Francis Colomb Darbhanga, Maharaja of Das Ram Saran Davies, Arthur Davies, Mrs. Edwin Egerton, William Ewing The Rev Dr J C R. Egenvon, wamen Ewing The Rev Dr J C R. Firth Mrs. E J (with Gold Bar) Francis Edward B ichan (andh Mohandas karamchand Ghosal Mr Jyotsnanath
Glazebrook N S
Gongga Rey Mother
Graham, The Rey John Anderson Grattan, Major Henry William Guilford, The Rev E (with Gold Bar) Gwallor Maharaja of Gwyther Lieut Colonel Arthur Hahn The Bev Ferdinand Hamil 100 nov requiment Haug Lieutenant-Colonel Patrick Balfour Hall, Harold Fielding Patrick Hamilton, Major Robert Edward Archibaid Harvest, Lieut Colonel Herbort deVers Harvest, Lieut Colonel Herbort de Ven Hüdeele, The Rey Alfred Herbert Hödgson, Rdward Marsden Hogan W J Alexander Houderness, Sir Thomas William Home Walter Howard, Mrs. Gabrielle Louise Caroliu Hume, The Rey R A, Hümphreys, Robert Hüsband, Major James Huteninson, Sir Sydney Hutton Cooper Hutchinson, Major William Gordon Hutwa The Maharad Juan Manjari Kuori of Hydari Mrs. Amina Tryine, Lioutenant-Colonel Thomas Walter Ismail, Muhammad Yusuf Iven Harry William Macloon Jacob, Colonel Sir Samuel Swinton James Lieutenant-Colonel Charles Henry Jankihei Joshi, Ram Bhan Heghanham, Rao Baliadur Kapur, Baja Ban Bibari King, Mrs. D Kirkpatrick, Clarence

Klopsch, Dr Louis Ko, Tav Sein Kothari The Hon ble Mr Jehangir Hormusii Lamb The Hon ble Sir Richard Amphiett Lindsay, D Arcy Ling, Miss Catharine Frances Lovett, The Hon ble Mr Harrington Verney Luck Wilfred Hrnry Lukis Lady Lyall Frank Frederick Lyons, Colonel Robert William Steele Macwatt, Lieutenant-Colonel Robert Charles Madhaya, Rao Vichwanath Pattankar Madhayan Nair M R. Ry T Avergal Mahdi Humin hawab Mirza Wahomed Almal Khan Hakim Hazik ul mulk Malegaon Raje of Malvi Tribhuvandas Narottamdas Manners-Smith The Hon'ble Mr St George Mary of St Paula Rev Mother Mayes Herbert Frederick McCarrison Major Robert McCloghry Colonel James McChighry Colonel James Mechthida Bev Mother Miller The Rev William Minto Mary Caroline Morgan George Muhammad Husam Khan Khan Bahadur Morrison Honorary Captain James Muir Mackenzie, Lady Thérése Murray, George Ramsay Naidu, Mrs. Serojini Nanak Chand Nariman Dr Temulji Bhikaji Neve, Dr Arthur Nubet John Noyce William Florey Noyce William Florry
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Phelps Edwin Ashby
Pitcher Codomel Duncan George
Plant, Captain William Charles Trew Gray Abdul Headin Man Bhai
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Tyndale-Biscoe, The Rev Cecil Btoelke Venugopala, Baja Bahadur Wagner Rev Paul Wake Lieutenant-Colonel Edward St Aubyn (with Gold Bar) Wakefield, George Edward Campbell Walker Lady Fanny Walter Major Albert Edjah Ward, Major Ellacott Leamon Wheeler The Rev Edward Montague Whitton, The Rev David Wilkins Lieutenant-Colonel James Sutherland Wilkinson, Lieutenant-Colonel Edmund Willingdon the Lady Wilson-Johnston, Joseph Winter Edgar Francis Latimer Wood, Arthur Robert Young The Rev John, Cameron Youngbusband Arthur Delaval Younghusband, Lleutenaut-Colonel Sir Franck Recipients of the 2nd Class

Abul Fattah Moulvi Saiyed Abdul Kadir Abdul Majid Khan, Colonel Muhammad Abdul Majid Khan Abdul Rahman, Mahommed Abdur Rahlm Abdur Raszak Khan Subadar Adayani Motiram Showkiram Agha Mohamed Khalii Bin Mohamed Karl Ali Rakash, Ebalkh Alien Rev Frank Van Amar Nath Lala Amar Singh Anastario Sister Anderson Andrew Andrew, The Rev Adam Anscomb Major Allen Mellers Apto Hari Narayan Askwith Miss Anne Jane Alkinson Lady Constance Augustin, The Rev Father Asis Hussin, Khan Sahib Mir Badri Parabad inson Parasaa Bahmanji Mancherit Bakar, Honorary Major Thomas Banarit, Professor Jazzini Nath Banka, Dr. Charles Bapat, Risaldar Sadashiva Krishaa Jardaley Miss Jane Bilsseti

Baw U Kan Bayley, Lieut, Colonel Edward Charles Bestson Bell, Nicholas Dodd Beg, Mirss Kalloh Beg Fridun Best, James Theodore Hert, James Theodore Bevilla, Lieutenant-Colonel Francis Granville Bhagwandas, Bel Zacerbai Bhajan Ial Bhate, Pandit Balkrishna Govind Bhide, Raoit Janardhan Bhutt, Chhotelal Goverdhan Biabeahwat Nath, Lela Biswaa Babu Anonda Mohan Blackham, Kajor Robert James macknam, Major Robert James Bisckwood, John Ross Biske, The Rev William Henry Bisminnop Edward Robert Kaye Bohter Miss Anna Borrad, Babu Bahnarayan Bose Miss Mona Bown offith
Brahmanand, Pundit
Brahmanand, Pundit
Brander Mrs. Lasbel
Breuner Major Arthur Grant
Brook, Mas Lilian Winifred
Brown, The Rev Anthony Watson
Brown, Dr Edith
Burt, Bryos Chudleigh
Cain, Mrs Sarah
Campbell, The Rev Andrew
Campbell Miss Kate
Campbell Miss Susan
Campbell Miss Susan
Campbell, The Rev Thomas Vincent
Cart Miss Emma
Cart Thomas
Cart Thomas
Catterine, Sister Bowen Griffith Catherine, Sister Catherine, Sister Cathell, Major Officert Landale Cecilia Bister Famile Chamberiath, The Bev William Issae Chandler The Bev John Scudder Chatterji The Bev K.C Chandhuri, Purna Chundra Chitale, Ganceh Krishna Churchward, P A. Chye, Louis Charles, John Charles Charkes, Homorary Major Louis Arthur Henry Chritechuck Peter Henry Coombs George Oswald Corres, Miss Marie Corthorn Miss Addie Cottle West, Addie Cottle Mr. Ad la Coxon, Stanley William Cumming James William Vicel Cummings, The Bey John Ernest Cutting, Rev William Dairymple-Hay Charles Vernon Dairympic-Hay Charles Verni Das, Ram, Lala Das, Mathura, Lala Das, Minanjan Datta, Dr. Dina Nath Pritha Dawson, Mrs. Charles Hutton Dasson, Mrs. Charles Hutton Dasse, George Archibald Deune, Google Archibaid
Deodhar, Gopal Krashna
Deogl, Hari Ahmed, Khan Sahib
de Kantsow, Mrs. Marv Aphrasia
Deussannd, Swygam J
Dewes, Lieutemant-Colonel Prederick Joseph
Illumpatrai, Sardar Bahadur
Dhisra Chand Lala
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Dip Singh, Lieutepant Douglas, The Rev John Dun Maung Ne Dundas, Charles Lawrence Dumlop Alexander Johnstone Durlan Singh, Thakur Dutta Mahta Harnam Eagles Thomas (agaly Eaglesome, George Edgell, Lieutenant-Colonel Edward Arnold Emanuel, Mrs. Emanuel, Mrs.

Evans The Rev John Coredig

Evans Miss Josephine Annie

Farrer Miss Hillen Margaret

Farsand I Ahmad, Khan Bahadur Kazi Salyid

Freynet The Rev Father Etlenne

Freuch, Lieutemant-Colonel Thomas Fiashman Thomas Charles Pletcher Miss
Forman, The Rev Henry
Fox Alired Charles Francis, Sister Jane Francis, Sister Jane Fraser William Fraser Robert Thomson Fyson Hugh Galiphal Ba: Garchwalte, Liston Garchwalte, Liston George, Miss Jesule Ricanor George, Riss Jessee Ricanor Godfrey Thomas Leonard Goenka, Baljnath Goodboy, Mr. Gorman Patrick James Goswami Sri Sri Naradev Dakhinpat Adhikar Gowardhandas, Chatrabhuj Grant, Major John Weynus Grant Mrs nes Min Lillan Biong Grant Min Jean Gray, Commissary William David Grany Commessity William Day Greany Poter Mawe Greenfield, Miss B. Griessen, Albert Edward Pierre Gumbley, Mr Douglas Gune, Trimbak Raghunath Gyl U Pet Halyati Inabh Matik Halyati Inabh Matik
Hannshan, W G
Harrison, Robert Tullis
Harrison, Robert Tullis
Hart Mise Louisa
Harvey, Mise Rose
Harvey, Mise Rose
Hatoh, Mise Sarah Isabella
Haworth, Major Lionel Berkeley Holt
Hayes, Mise Mary Lavinia
Henderson Mise Agnes
Highy Mise Sarah J
Higdina, Andrew Frank Higgins, Andrew Frank Hill, Ellott Hodman The Rev Father John S J Holbrooke Major Bernard Frederick Roper HORDTORE MAJOT BETTARI Frederich Holden, Major Hyla Napler Holland, Dr. Heury Tristram Homer Charles John Hope Dr. Charles Henry Standish Hughes, Thomas Onslow Hunter Honorary Capiain James Hutchiston Dr. John Chen All jhaan Ali Jaljee Bai (Mrs. Petit) Jamath, Pandit
Jamath, Pandit
Jamath, Pandit
Jamath, Pandit
Jogiekar, Rao Sabib Ganssin Venkatesh
Johnson, Rao Sabib Ganssin Venkatesh
Johnson, The Rev John Peter

Jones, The Rev Robert Jones, The Rev John Pengwern Joah, Trimbak Waman Jess, Miss F Jotl Prasand, Lelis Judd, C R Jwala Prasad Mrs. Wala Singh, Sirdar Kalubaya Aram Kesarkhan Kanow Yasuf Kapadia, Miss Molihal Karye Dhando Keshay Kastur Chand Daga, Seth, Fir Kelavkar Miss Krishnabai Kelly, Miss Eleanor Sarah Ker Thomas Khujoorius Madirahan Nowrojee Kidar Nath Lala King, Robert Stewart Knollys Major Robert Walter Edmond Knox, Major Hobert Welland Ko, U Kothewala Mulla Yusuf Ali Kreyer Lieutenant-Colonel brederick August Kugler Miss Anna Sarah kvaw Maung Lang John Langhorne Frederick James Lankester Dr Arthur Colborne Laughija Mi s J H M Lawrence Captain Henry Rui die Lawrence Henry Stavelev Lealie-Jones Levoester Hudson Lloyd Miss Elizabeth Looke Robert Henry Low Charles Ernest Low Charles Interest Lund, George MacAbater The Rev G Macdonald, Captain Charles Reginald Mackensie Alexander McGregor Mackensie Howard Mackensie Mickensie Mickensie Mackinnon Miss Grace Macleod Lieut -Colonel John Norman Mackellar Dr Margaret
Macphail The Rev James Merry
Macphail Miss Alexandrina Matilda Madan Mr Rustamii Hormasil Maddox, Lleutenant-Colonel Ralph Henry Mahadevi, Srimati Mahommed Allanur Khan Maiden J W Battra Babu Bhuban Mohan Maith Sashi Bhusan Maracan, Esmall Kadir Marks, States
Mary of St Vincent Sister
McCowen, Offiver Hill
McDonald Joseph Jumes McGregor Duncan Mend Rev Ceoll Silas Mitcheson, Miss Mitra, Rajeswar Mitter Mrs. Mohammed Khan Moltra Akhoy Kumar Moore Nuring Sister Dora Louisa Traslove
Moore, Miss Eleanor Louisa
Moore The Rev Pitt Holland
Morris, Najor Robert Lee
Motilal, Seth of Piparla
Mount, Capatin Alan Henry
Mount, Capatin Alan Henry
Mound, Capatin Alan Henry Mosumdar Jada Nath

Mudell, Valappakkam Dalvasicomoni Thendayaroyan Mudallar Bangalore Perumai Annaswam Muhammad Yusuf Shame-Ul Ulama Khan Bahadur Mukharii Babu Jogendra Nath Mukharii Babu Nagendra Nath Mulier, Mas Jenny Mulier, Oavald Valdemar Murii Dhar Murphy Edwin Joseth Myst, Maung Htoon Nabi Bakah Nag Mrs. Sad Mukhi Naimullah Mohamed Naoum Abbo Kapier Alan Bertram Varsin Har Varayan Pershad Babu Nariman Khan Bahadur Manekil Kharwedil Narpat Singh Babu Nasrulla Khan Mirsa Norris Miss Margaret O Maung Po
O Brien Major Edward
O Conor Brian Edward
O Hara Miss Margaret Old Frank Shepherd Orman Honorary Captain Charles Henry Orr Adolphe Ernest Orr James Peter Outram. The Rev A Owen Captain Robert James Owen C B Pal Babu Baroda Sundar Palm Major Randje Harry Pandit Vasudeo Ramkrishna Parbati Bal Mussammat Park The Bev George W Parsons Richard Parsons Ronald Parsons W Patel, Barjoril Dorabil Patel Jeona Pathak, Vithal Varayan Pattack Ram Sahai Patrick Miss Roohel
Patrick blater
Perroy Rev Father
Pernell (Are Sorabij) Mrs. Alice Maude
Peters. Lieutenant-Colonel Charles Thomo Phallbus Miss Rose Materiet. Phatibus Miss Acse Nargaret Pierce, Miss Ada Louise Pillay Chinnappa Singaravalu Pinney, Major John Charles Digby Pinto, Miss Predises Plowden Major Trevor Chichele Popell John Prabhu Auantrao Raghunath Priblidas Shevakram Price The Res Eustsoe Dickin on Prideadx Frank Winckworth Austice Purshotan des Thakurdes Pyo Maung Tet
Rai Chaudhun Parbati Sankar
Raikes Mrs. Altos
Rait, Miss Helen Anna Macdonald
Rai Bahadur Pandit Raj Banadur Fannit Ram Mr Bhaght Ramchandra, Dail Ramgopal, Mallani, Seih Bam Singh N V O Ranade, Mrs. Ramabal Ranjit Singh

Rattanni Muhi RAULADA MADI RAY, Harendra Nath RAY Babu Sarat Chandra RASS All Khan, Sardar Reed, Mrs Lillian Richardson Mrs Catherine Stuart Richardson Howard Roberts, Captain Charles Stuart Hamilton Robinson James Robinson Lieutenant Colonel William Henry Ranner Roe, Brigadier General (viil Hercourt Roe, Mrs. Edith Mary Raushan Lal Lala Rukmabat, Dr. Rastom, Fandoon;
Sadher A W Woodward
Sahan Ram Kali Sahay, Lala Deonath Samt Monica The Rev Mother Saint Monice The Liev mother Salkield Iom Samarth, Wasudeo Mahadeo Samuels, Joseph Schultze, The Rev Frederick Volkomor Paul Scotland Lieutenant-Colonel David Wilson Shah, Babu Lai Behan Shah, Mohamed Kamal, Salyid Shah Mohammad Nawas Shah, Reverand Ahmad Bhamnath Sheore Raghunath Balwant Shyam Rikh Raja Francis Xavier Shyam Sunder Lall Simoor Arthur Henry Addenbrooks Simotr Arthur Henry Addenbrooks Simotr Enter M. Sinclair Reginald Leahy Singh, Apri Dhul Singh, Didar Singh, Babu Harnath Singh, Makkhan Singh, Makkhan
Singh, Babu Ramdhari
Singh, Sabu Ramdhari
Singh, Stila B tah
Singh Singh Sabada Sher
Singh, Sinaddar Major Hanwant
Singh, Bisaldar Major Hanwant
Sinth, Miss Ellen
Sinth, The Rev Frederick William Ambery
Sonthearrille The Rev Dr James Sri Ram Kunwar Thakurain Starte, Oliver Harold Baptist Steel, Alexander Steele The Rev John Ferguson

Stephens John Bewitt Stephens, Mrs Grace Stevens, Mrs. (Ethel) Stavenson Surgeon General Heavy Wickham Stewart, Major Hugh Stewart, Mrs. Lilian Dorothea Stewart, Thomas St. Joseph J D Skrip Samuel Algernon Sultan Ahmed Khan Sunder Lul Sundrabas Surebhan Janu Swainson Miss Florence Swanson and Shifteness Taleyarkhan Mr Manekshah Cawasha Talih Mehdi Khan Malil Tambe Dr Gopal Rao Ramchandra Tarapurwalla Fardunji Kuvarji Taylor Rev Alfred Prideaux faylor Mrs Florence Prideaux Taylor, John Norman Tha Manng Shwe Them Manng Po Theobald Muse Thomas Samuel Gilbert, Timothy Samuel Thompson R to Thompson Robert Douglas Thom sen The Rev G Nicholas Thoy H rbert Dominick Tok Maung Ba Tok Maung Po Thorn Mass Bertha Tomkms, Lionel Linton Tudball, Miss Emma Tudbali, Miss Emma Umar Khan Malik Zorawar Khan Visvesvaraya Mokshagundam Wait Robert William Hamilton Wakefield George Edward Campbell Walevalker P Biburao Waller Frederick Chighton Waniess, Dr William James Wares Donald Horne Wellb-Ware Mrs Dorothy Wilghell Miss arms lane Weir Henry Western, Miss Mary Priscilla Wildman Miss Elizabeth Annie Wiseman Honorary Captain Charles Sheriffe Woerner Miss Lydia Wood, The Rev 4 Yerbury, Miss J Young Dr M Y Zahur il Husain Muhammid

# Indian Names and Titles.

There is a to witdowing multiplicity of Indian | Deb-s Brahminical pricetly title . taken from titles, made all the more difficult insamuch as there is a difference of nomenclature between the titles of Hindus and Mahomedans Some titles are hereditary and represent roling chiefs or those nominally such (and of these there are no less than some 620 whilst of the titles them salves some 200 are known) others are personal honours conferred on individuals by the Indian Government, and even then cometimes made hereditery Yet again there are numerous compilmentary titles, or specifications of office expressed in Hindu phrases of which we have occasionally supplied the interpretations. It must be added that though easts is often figuring in the names it has nothing whatever to do with the titles Amir Khan Mir Sultan Sri &c are confusingly used as both titles and names

The order of rank is thus given by Sir R Lethbridge in The Golden Book of India

-Maharaja Bahadur Maharaja Bahadur Raja Lai Bahadur Rai Saheb

Mohammedan—N128m Nawab Rabadur Newah Khan Babadui khan Baheb Khan

Parsis and Bone Israeldes-Lihan Bahadur Aban babeb

Afair-a corruption of th English officer Ahluwalia-name of a princely family resident at the village of Ahlu, near Lulion,

Albundrada-son of a Head Officer

Alugh (Sindhi)-of exalted rank

Ali Rata-Sea King (Lacradives)

Amir (corruptly Emir) -a Mohammedan Chlef often also a pursonal name

Asaf-a Minister

Baba---lit father Trish Your Honour a respecting Mr

Babu-strictly a 5th or still younger son of a Eala, but often used of any son younger than the heir whilet it has also grown into a term of address—Esquiro Thore are however one or two Hajas whose sons are known respectively as—ist Kuuwar Znd Diwan 3rd Thakur 4th, Lal 5th, Babu

Bahadur—lit pAndur—lit brave or warrier title used by both Hindus and Mohammed often bestowed by Government added to other titles it increases their honour but alone it designates an inferior ruler

Balkela-a revenue officer or magistrate Begun or Begam--the feminine of Nawah combined in Bhopsl as Nawab Begum

Bear-apparently a large land-owner Bhonels name of a Maratha dynasty

Bhun-title of the ruler of Cooch Behar Bleesti-name of a Baluch tribe

Chhatrapat-one of sufficient dignity to have an umbrella carried over him

Dada-It. grandfather (paternal) BRV venerable person

Davis and Davist-State also one in office.

the name of a divinity

Dheraj- Lord of the Lands addad Raja &c it means paramount

Devoan-a Vizier or other First Minister to a native Chief, either Hindu or Mohammedan, and equal in rank with Sardar which see other equivalents. The term is also used of a council of State

Elaya Raja-title given to the heir of the Maha rais of Travancore

Farzand (with defining words added) -- lavo riti or beloved Fateh victory

Fath Jeang- Victorious in Battle (a title of the Nizam)

Quekwar (sometimer Quicowar)—title Maharaja added of the ruler of Baroda It was once a caste name and means cowherd the protector of the sacred animal but later on in common with Holkar and Shodhis, it came to be a dynastic appel lation and consequently regarded as a title and Thus a Prince becomes Gackwar succeeding to the estate of Barods Holkar to that of Indore and Sindhia to that of Gwalior

Haft-guardian

Hart-one who has made filgrimage to Mecca.

Hera Lul- diamond ruby

Holkar—⊾ee Guokwar

Jah-a term denoting dignity

Jam (Bindhi or Baluch)-Chief Katı-(better written Qazi)-a Mohammedan:

magnetrate Khan-originally the ruler of a small Mohamme-

dan State now a nearly empty title though prized It is very frequently used as a name, especially by Afghans and Pathans

Khanga-a Persian word for master " sometimes a name

Kunuar or Kumar-the helr of a Raja

Lai- a younger son of a Raja (strictly a 4th sonbut see under Babu )

Lebenden - Protector of the Cokendra o title of the Chiefs of Dholpur and World Dattin.

Mahani -- a fendal title borne by the heads of w Hindu religious body

Maharaja-the highest of hereditary rulers among the Hindus, or cise a personal distinction conferred by Government. It has several variations as under Rale, with the addition of Makera, Rana its teminine is Maharant (maha-great)

Malıt-master proprietor

Muss title of the son of a Raiput Navab resembling the Scottish Master

Mir—a leader an inferior title which, like Khan, has grown into a name. It is especially used by descendants of the Chiefi

Miras-if profixed, "Mr " or " Require."

Mone, Moune, or Maung (Arakanese)-loader Menici or Manici -- learned man or teacher Mudebuar or Mud-liar-a personal proper name, but implying steward of the lands Musica and Daula-distinguished in the State (Mulk in the country)

Munchi president, or presiding official Myorous Mr

Wascab—originally a Vicercy under the Moghal Government, now the regular leading title of a Mohammedan Prince corresponding to Maharaja of the Hindus

Yann-a ruler (not to be confused with following)

From the title of the ruler of Hyderabad the one Mohammedan Prince superior to Nawab Yone Thibeten)—the ruler of Spitta

Pendut or Pundut-a learned man

Packup-manager or agent

Prince-term used in English courtesy for "Shahzada, but specially conferred in the i Arrot 1

Raja—a Hindu Prince of exalted rank, but inferior to Maharaja The feminine is Ram (Princess or Queen) and it has the variations Hay Rama Rao Ras, Rawal, Rawal Rawker Raukber Raukber and Rauks The form Rat is common in Bengal, Rao in S & W India

Raj Rajeshwar- King of Kings

Resalder-commander of a troop of horses.

Saheb—the Native Hindu term used to or of a European (Mr Smith would be mentioned as Bmith Saheb, and his wife "Smith Mom Saheb but in addressing it would be fem. Saheba, without the name) Mahah occasionally appended to a title in the same way as Bahadur but merior (-master) The unusual combination Nawab Sabeb implies a mixed population of Hindus and Mohammedans.

Sahibiada son of a person of consequence.

Sand, Sayid, Sayid, Sada Syed Syed—various forms for a title adopted by those who claim direct male descent from Mohammed s grandson Hussin

Sardar (corrupted to Sirdar)—a leading Gov emment official, either civil or military even a Grand Vizier Nearly all the Punjab Barons bear this title It and Diwan are like in value and used by both Hindus and Mohammedans. So but Mohammedans only are Wall," Sultan Amir Mir Wali," Sultan

Second - Hundu title implying a slight distinc tion (lit, one-fourth better than others)

Sauboa (Burmese)—a Chief

Shakarda-son of a King.

Shoikh or Shoubh (Arabic)-a Chief.

Shows-ul-Ulama a Mohammedan title denoting "learned."

Shamekin-Jang-"Sword of Battle (a title of the Maharaja of Travancore).

Sidi-a variation of "Said.

Sindhia--ece under ' Gaakwar"

a Sansorit Sri or Shri lit fortune, beauty term used by Hindus in speaking of a person much respected (never addressed to him nearly = Esquire') used also of divinities. The two forms of spelling are occasioned by the intermediate sound of the s (that of s in the German Stadt)

Subadar-Governor of a province

Sultan-like Sardar

Swed, Swed-more variations of Said

Talukdar-an Oudh landlord.

Talpur—the name of a dynasty in Sind

Thakur-a Hindu term equivalent to Raba dur whether as affix or alone

Tumandar—a Persian word denoting some office Umara-term implying the Nobles collectively Wall-like Bardar

The Governor of Khelat is so termed, whilst the Chiefs of Cabul are both Wall and Mir

Zemindar or Zamindar-e landowner orig a Mohammedan collector of revenue

annoimement

Distinctive Badges.—An announcement was made at the Coronation Durbar in 1911. that a distinctive badge should be granted to present holders and future recipients of the cities of Diwan Bahadur Sardar Bahadur' Khan Bahadur Rai Bahadur Bao Baha dur khan Sahib Hal Sahib and Rao Sahib Subsequently the following regula tions in respect of these decorations were leasted —(1) The decoration to be worn by the holders of the titles above mentioned shall be a badge or medallion bearing the King's offigy orowned and the name of the title, both to be executed on a plaque or shield surrounded by a five-pointed star surmounted by the Imperial Crown the plaque or shield being of sliver glit for the titles of Diwan Sardar Khan Rai and Rao Bahadur and of sliver for the titles of Khan, Rai, and Rao Sahib (2) The badge shall be worn suspended found the neck by a chibbon of our research shall be worn suspended found the neck by a ribbon of one men and a half in width, which for the titles of Diwan and Sardar Bahadur shall be light blue with a dark blue border for the titles of Khan, Rai and Rao Bahadur light red with a dark red border and for the titles of Khan Rai and Rao Salub dark blue with light blue border

A Press Note issued in November 1914 state - The Government of India have recently had under consideration the question of the position in which ministeres of Indian titles should be worn and have decided that they should be worn on the left breast fastened by a brooch and not suspended round the neck by a ribbon as prescribed in the case of the Badge itself When the ministrates are worn in conjunction with other decorations they should be placed humediately after the Kaiser-i Hind Model.

Indian Distinguished Service Medal.medal was instituted on June 28th 1907 by an Army Order published in Simia as a reward for both commissioned and non-commissioned officers of the regular and other forces in India.
It bears on the obverse the Bust of King Edward
VII and on the reverse a laurol wreath encircl ing the words For Distinguished Service

medal, 18 inches in diameter is ordered to be The First Class consists of a gold eight-pointed worn immediately to the right of all war medals suspended by a red ribbon 11 in wide with blue edges 1 in wide This medal may be conferred by the Vicercy of India

Indian Order of Merit -This reward of valour was instituted by the H. E I (o in 1837 to reward personal bravery without any reference to lingth of service or good conduct It is divided into three classes and is awarded to native officers and men for distinguished conduct in the field On the advancement from one class to another the star is surrendered to the Government and the superior class substituted, but in the event of the death of the recipient his relatives retain the decoration The order carries with it an increase of one third in the pay of the recipient, and in the event of his death the allowance is continued to his widow for three years. The First Class con sists of a star of eight points 17 in in diameter slats of a star of eight points 1: in in unanewer, having in the matter a ground of dark blue ensuel bearing crossed swords in gold within a gold circle and the inscription Reward of Valour the whole being surmounted by two wreaths of laurel in gold. The Second Class star is of sliver with the wreaths of laurel in gold and the Third Class entirely of silver with a greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from a surmounter than the greenfed from the green gold and the Third Class entirely of silver The decoration is suspended from a simple loop and but from a dark blue ribbon 13 in in width with red edges bearing a gold or silver buckle according to class

Order of British India - This order was instituted at the same time as the Order of Marit, to reward native commissioned officers for long and faithful service in the Indian Army Since 1878 however any person European or native holding a commission in a native regi sors bear on the observe their bust in profile ment, became eligible for admission to the with the legend attend to EDWARDVS or Order without reference to creed or colour GFORGIV.

ridiated star li in diameter. The centre is occupied by a lion statant gardant upon a ground of light-blue enamel within a dark blue band inscribed Order of British India, and encircled by two laurel wreaths of gold. A gold loop and ring are attached to the crown gold foop and ring are attached to the crown for suspension from a broad ornamental band  $\frac{1}{16}$  in in diameter through which the ribbon once blue now red is passed for suspension from the neck. The Second Class is  $1\frac{1}{16}$  in in diameter with dark blue enamelled centre there is no crown on this class and the suspend there is no crown on this class and an energy of the cris formed of an ornamental gold loop. The sources to plain in both classes. The First Class carries with it the title Birder Bahadur and an additional allowance of two rupees a day and the Second the title of Bahadur and an extra allowance of one rupee per day

Indian Meritorious Service Medal.—This was metituted on July 27th 1888 and on receipt of the medal the order states a non-com missioned officer must surrender his Long Service and Good conduct medal but on being promoted to a commission he may retain the M. S. medal but the annuity attached to it will cease. On the obverse is the diademed bust of Queen Victoria facing left with a vell falling over the crown behind, entireled by the legend Victoria Kalsar i Hind. On the reverse is a wreath of lotus leaves enclosing a wreath of pain tied at the base baving a star beneath between the two wreaths is the inscription for meritorious service Withm the palm wreath is the word India. The medal 13 in in diameter is suspended from a croll by means of a red ribbon lin wide. The medals issued during the reigns of Queen Victoria a succession.

# THE COST OF FAMINE

In the section on Famine (q v) the whole policy of the Government of India towards the relief of distress is sketched out and the the estimated loss of food grains was almost broad results indicated. They are revealed in a return on the last serious fam is return on the last serious fam is return of the last serious fam is returned. which has occurred in India In the United Provinces the failure of the 1919 mossoon, followed by 100r and unseason able cold weather rains led to a will spread of the 1919 mossoon above the failure of the 1919 mossoon above the failure of the sam square miles and a population of 6 millions to \$80,000 it was given principally to personal but the prosperity of the preceding years but the properity of the preceding years had enabled the population to develop a far preceding years incapable of working A marked feature of greater staying power than on previous occasions of familie nor was the rise in food prices so marked Gowernment made loans of outitivators amounting to over \$1.50 000 besides suspending land revenue and sanction ing remissions amounting to over \$1.50 000 besides suspending land revenue and sanction ing remissions amounting to over \$1.70 000 besides suspending land revenue and sanction ing remissions amounting to over \$1.50 000 besides suspending land revenue and sanction. The necessity for direct measures of relied did not arises till December, which is consil defended to the amounting to over \$2.1.50 000 in 1907-08 Good rains in July devaily later than on previous occasions of families. The coat of direct relief operations and september 1914 finally reliaved the situation and ensured a good khazif crop.

for the carrying of to fin merous rojects with famine inhour These comprised construction of roads, tanks and irrigation works and the reclamation of ravine land—all works of un-

# Laws and the Administration of Justice.

The indigenous law of India is personal and dvisible with reference to the two great classes of the population. Hindu and Mahomedan. Both systems claim divine origin and are in systems communication with religion and each exists in combination with a law based on curtom. At first the tendency of the English was to make their law public and territorial and on the establishment of the Supreme Court at Calcutta in 1773 and the advent of English hwyers as judges they proceeded to apply it to Europeans and Indians silke, This error was rectlined by the Decharatory Act of 1'80, by which Parliamont declared that as against a Hindu the Hindu law and usage, and as against a Mahomedan the laws and oustons of Islam should be applied. The rules of the Shastras and the Koran have been in some Shattras and the Koran have been in some cases altered and relaxed instances can be found in the Bengal Said Begulation Act of 1889 the Indian Slavery Act, 1843 the Casta Disabilities Removal Act of 1850 the Hadu Wildows Remarkage Act 1866 and other Acts and Codes To quote the Imperial Gasetteer A certain number of the older Regibb statutes and the English common law are to a limited extent still in force in the Pre are to a limited extent still in force in the Pre-sidency Towns as applicable to Buropeans, while much of the old Hindu and Mahomedan law is everywhere personal to their native fellow subjects but apart from these and from the customary law which is as fer as possible recognised by the Courts, the law of British recognised by the Courts, was law of Editan India is the creation of statutory enactments wade for it either at Westminster or by the authorities in India to whom the necessary law giving functions have from time to time been delegated.

#### Codification

Before the transfer of India to the Crown the law was in a state of great confusion. Sit the law was in a state of great confusion of the law was in a state of great confusion. The first steps toward general codification was appoint taken in 1835 when a Commission was appoint taken in 1835 when a Commission was appoint taken in 1835 when a Commission was appoint to prepare a penal code. Twenty two years elapsed before it became law during pains or Americans. Whilst this change which period it underwent revision from his successors in the Law Membership and especially by Sir Barnes Peacock the last Chief Justice of the Supreme Court of Calciutta. The Penal Code which became law in 1860, was followed in 1861 by a Code of Criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. Substantially the whole criminal Procedure. The substantial Procedure of Judicature. These were continuous control of Judicature. Before the transfer of India to the Crown Procedure. Substantially the whole criminal law of British India is contained in these two haw of Eritish India is contained in these two Codes. One of the most eminent lawyers who codes. One of the most eminent lawyers who codes of civil Procedure have been embedied in some few particulars that it is practically in the Code of Civil Procedure. The landar place is the crushing them to smit the dream place is the code. The procedure have been embedied in the Code of Civil Procedure. The landar place is the code is the code of Civil Procedure have been embedded in the Code of Civil Procedure. The landar place before the High Courts, but procedure have been embedded in the Code of Civil Procedure. The landar place before the High Courts, but place and the Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled. The Code of Civil Procedure was remodeled to the Civil Procedure was remodeled. The Code of Civil Procedure was remodeled to the Civil Procedure was remodeled. The Code of Civil Procedure was remodeled to the Civil Procedure was removed to the C

#### **European British Subjects**

Whilst the substantive criminal law is the same for all classes certain distinctions of pro-cedure have always been maintained in regard to crimmal charges against European British subjects. Until 1872 European British sub subjects. Until 1872 European Brusan and jects could only be tried or punished by one of the High Courts. It was then enacted that European British subjects should be liable to be tred for any offences by magnetizates of the highest class who were also matrices of the peace, and by judges of the Sessions Courts but it was necessary in both cases that the magnetizate or judge should himself be a European British subject. In 1883 the Government of India announced that they had decided to settle the question of surisdiction over European subjects in such a way as to remove from the addicts in such a way as to remove from the code at once and completely every indictal disqualification which is based mirely on race distinctions. This decision embedded in the libert Bill, aroused a storm of indignation which is still remembered. The controversy ended in a compromise which is thus summa ried by Sir John Strachey (India ) The controversy ended with the virtual though not avowed abandonment of the measure proposed by the Government Act III of 1884 by which the law previously in force was amen ded cannot be said to have diminished the privileges of European British subjects charged with offences and it left their position as exeptional as before. The general disqualifica-tion of native judges and magistrates romains but if a native of India be appointed to the post of district magnetrate or sessions judge his powers in regard to jurisdiction over European British subjects are the same as those of an Englishman holding the same office This provision lowwer is subject to the condition that every European British subject brought

filgh Courts of Judicature These were con High Courts of Judicature These were con-stituted by the Indian High Courts Act of 1861 for Behgal, Bombay and Madras, and later for the United Provinces superseding the old supreme and Sudder Courts The Judges are sprointed by the Crown they hold office during the pleasure of the Sovereign at least one-third of their number are partisters, one-third are recruited from the judicial branch of the Indian Civil Service, the remaining places

difference being that they derive their authority | from the Government of India, not from Parlia-In the Punjab and Burms there are ment in the runjac and norms succe and Other Courts with three or more judges in the other provinces the chief appellate autho-rity is an officer called the Judicial Commissioner in Sind the Judicial Commissioner is termed Judge of the Sudder Court and has two colleggues

The High Courts are the Courts of appeal from the superior courts in the districts crimi nal and civil and their decisions are final except in cases in which an appeal lies to His Majesty in Council and is heard by the Judicial Committee of the Privy Council in England.
The High Courts exercise appervision over all the subordinate courts. Returns are regular ly sent to them at short intervals and the High Courts are able by examining the returns by sending for proc dings and by calling for explanations as well as from the cases that to some extent acquainted with the manner in which the courts generally an dischargin their duties

#### Lower Courts

The Code of Criminal Procedure provides for The Code of chiminal Procedure provides not the constitution of inferior criminal courts styled courts of session and courts of magis trains. Every province outside the President, towns is divided into sessions divisions consisting of one or more districts and every sessions division has a court of session and a sessions judge with assistance if need be These stationary as sions courts take the place of the hoglish Assizes and are competent to try all accused persons duly committed and to inflict any punishment authorised by law but sentences of death are subject to confirms tion by the highest court of criminal appeal in the province Magistrates courts are of three classes with descending powers Provision for the appointment of honorary magistrates in the Presidency towns Presidency magistrates deal with magisterial cases and benches of Justices of the Peace or honorary magistrates dispose of the less important cases

Trials before courts of session are alther with assessors or juries. Assessors assist, but do not bind the judge by their opinions on do not bind the judge by their opinions on juries the option of the majority prevails if accepted by the presiding Judge The Indian law allows considerable latitude of appeal the prevocative of mercy is exercised by the Governor General in Council and the Local control of the prevocative of the prevocative to the control of the prevocation of the prevoc Government concerned without prejudice to the superior power of the trown

The constitution and jurisdiction of the inferior civil courts varies Broadly speaking one district and sessions judge is appointed for one district an assessing large is appointed for each district as District Judge he presides in its principal civil court of original jurisdiction his functions as Bossions Judge have been de scribed For these posts members of the Indian Judge, are almost invariably presided over by Indians There are in addition a number of Courts of Small Causes with judsdiction to try money suits up to Rs. 500 In the Presidency Towns where the Chartered High Courts have original jurisdiction Small Cause Courts die pose of money suits up to Rs 2000 As In solvency Courts the chartered High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns In the mofussil similar powers were conferred on the District Courts by the Insolvency Act of 1908 Courts by the Insolvency Act of 1908

Coroners are appointed only for the Presidency Towns of Calcutta and Bombay Elsewhere their duties are discharged by the ordi nary staff of magistrate and police officers unaided by jurors

#### Legal Practitioners

L gal practitioners in India are divided into Barriston at Law Advocates of the High Court, Vakils and Attornovs (Solicitors) of High Courts and Pleaders Mukhtiars and revenue agents Barristers and Advocates are admitted by each High Court to practise in it and its subordinate courts and they alone are admitted to practise on the original id of some of the chartered ligh Courts Vakils are persons duly qualified who are admitted to pravitise on the appellate side of the chartered High Courts and in the Lourts subordinate to the High Courts At torners are required to qualify before admission to practice to the subordinate t to practise in much the same way as in England The rule that a solicitor must instruct counsel prevails only on the original aide of certain of the High Courts Pleaders practise in the subordinate courts in accordance with rules framed by the High Courts

### Organisation of the Bar

At Calcutta Madras and Bombay there is a Bar committee presid down er office by the Advanta General This body is elected by the barristers practising in each High Court and its functions are to watch the interests of the Bar and to regulate its etiquete At Allahabad Lahore Nagpore and Rangoon a simil ar Bar Committee (vists but the electorate as extended to include the vakile or native pleaders and the president is either the senior practising member of the Bar or the Government Advocate In the larger Districts and Sea sions tourts an organisation representing the Bar is usually to be found and in the sub ordinate Courts including the Revenue Courts similar machinery is generally in use Pending an opportunity of detailed inquiries in Indiathese general descriptions must suffice

#### Composition of the Bar

A considerable change is occurring in the composition of the Indian Bar The following extract from an informing article in the Times (May 25 1314) indicates the character and incidence of this development During the scribed For these posts members of the Indian Civil Service are mainly selected though some place in the professional class. The bulk of Service. Next come the Subordinate Judges and Munsiffs, the extent of whose original jurisdiction waries in different parts of India. One typicallituration may be deeded. Attaching the civil courts, below the grade of District of the Sombay High Lourt in 1871 there were 38 solicitors, of whom 10 were indian and 38 English, and 24 advocates of whom 7 were Indian and 17 Hnglish. In 1911 stated ed to the same High Court, there were 150 soil ettors, of whom more than 130 were Indian and the remainder English, and 250 advocates, of whom 16 only were English and the remainder Indian.

#### Law Officers.

The Government of India has its own law colleague in the Legal Member of Council All Government measures are drafted in this department. Outside the Council the principal law officer of the Government of India cepartment. Outside the Council the principal law officer of the Government of India
is the Advocate-General of Bengal who is
appointed by the Crown, is the leader of the
local Bar, and is always nominated a member
of the Provincial Legislative Council in
Calcutta he is assisted by the Standing Counsel
and the Government Solicitor There are
Advocates-General and Government Solicitors
for Bombay and Madras, and in Bombay there
for Statached to the Secretariat a Legal Remembrancer and an Assistant Legal Remembrancer
drawn from the Judicial Branch of the Indian
Civil Service The Government of Bengal
consults the Bengal Advocate-General, the
Standing Counsel and the Government Solicitor and has besides a Legal Remembrancer
(a Civil Servant) and a Deputy Legal Remembrancer (a practising barrister) the United
Provinces are equipped with a civilian Legal uranner (a practising parieter) the United Provinces are equipped with a civilian Legal Remembrancer and professional lawyers as Government Advocate and Assistant Govern-ment Advocate, the Punjab has a Legal Re-membrancer Government Advocate and a Turder Government Advocate and a Junier Government Advocate and Burms a Government Advocate, besides a Secretary to the Local Lecialative Council

Sheriffs are attached to the High Courts of Caloutta, Madras and Bombay They are appointed by Government selected from non-officials of standing the detailed work

Sandemon Sir Lancelot

### Law Reports.

The Indian Law Reports are published in four series—Calcutta Madras Bombay and Allahabad, under the authority of the Governor General in Council. They contain cases determined by the High Court and by the Judicial Counties of the Council Counties of the Madra Counties of the Counties o termined by the High Court and by the Judicial Committee on appeal from the particular High Court These appeals raise questions of very great importance and the Council of Law Reporting for England and Wales show their appreciation by printing the Indian Appeals in a spearate volume and have also compiled and a separate volume and have and complete a digest of Indian Appeals covering the period 18,4 1893. The other Provinces and States have series of reports issued under the authority either of the Judiciary or the State

#### Legislative Power

The supreme power of Parliament to legislate for the whole of India cannot be questioned. In practice however this power is little used, there being a majority of officials on the Imperial Legislative Council—a majority deliberately reserved in the India Councils Act of 1900, the Account of State is which to India. 1909—the Secretary of State is able to impose his will on the Government of India and to secure the passage of any measure he may frame secure the passage of any measure he may frame regardless of the opinion of the Indian autho-rities Legislative Councils have here estab-lished both for the whole of India and for the principal provinces Their constitution and function are fully described in detailing the powers of the Imperial and Provincial Councils (q v) To meet emergencies the Governor denoral is vested with the power of leading ordinances, having the same force as Acts of the Legislature but they can remain in force for only six months. The power is very little used. The Governor General in Council is also empowered to make regulations having all the cogency of Acts for the more backward appointed by Government selected from parts of the contray the object being to non-officials of standing the detailed work being done by deputy speriffs who are officers permit the application of certain enactments only

# Bengal Judicial Department.

. Chief Justice

Teunon, The Hon'ble Mr William, 1,0.8	Pulsne Judge
Woodroffe, The Hon ble Mr John George M.s. Ber	Ditto.
At-Law_	
Mukharil, The Hon ble Sir Ashutoch, Et. CSI MA DL	Ditto
Richardson, The Hon ble Mr Thomas William, LC4	Ditto
Bar-at-Law	T.14.
Halmwood, The Hon ble Mr Herbert 108.	Ditto
Chitty The Hon'ble Mr Charles William, Bar at Iau	Ditto
Fletcher The Hon ble Mr Ernest Edward, Bar at Law	Ditto.
Sharf-nd-din, The Hop ple Mr Balyid, Bar-at-Law	Dirto
	Ditto
Coxe, The Hon ble Mr Henry Reynell Holled, I C 9	
Chatarfi, The Hon'ble Mr Digamber, M.A., B.L.	Ditto
Chatary, The Hon ble My Kalini Ranjan M.A., B L.	Ditto
Chandhuri, The Hon. Mr Asutosh, Bar -st-Law	Ditto
Impain, The Hon ble Mr Sayid Hassen, Box at Law	Ditto
Beachcroft, The Hon bie Mr Chacles Porten, 108	Ditto
	Ditto
Mollisk, The Hon ble Mr Bernots Kumer, LC.8	Ditto (Temporary Additional.)
Chapman, The Hon ble Mr Edmund Polly, L.C.s.	Ditto Ditto
Greaves, The Hon ble Mr William Breat Ber -at-Law	Ditto Ditto
Watnestey, The Hon ble Mr Hugh 104	Ditto Ditto.
A matrice of a transfer of the transfer and a transfer a final and	. 2700

# Bengal Judicial Department-contd

Kenrick The Hon ble Mr George Harry Blair, K.C. ILD. Bar at Law Mitra, The Honble Mr Bined Chandra, Bar at Law Kesteven The Hou ble Mr Charles Heury

Newbould The Hon ble Mr B B

Orr John Williams Bar at Law

Bam Charan Mitra

Hume, J T

Hechle James Herbert

Remfry Manrice

Natina Mohan Chatarit Bar -at Law

Ryper George Bonnaud, William Augustus Bar at-Law

Hem Chandra Mitra

Veltch Harold Massun BA ICS

Counsell Frank Bertram Grev Charles Edward Bar at Law

Bonnerjee K K Shelly Bar at Law Dobbin F k Bar at Law

Bose, B.P., Bar at-Law Waite, Thomas John

Advocate-General

Standing Counsel Government Sobertor

SuperIntendent and Remembrancer of Legal Affairs Deputy Superintendent and Remem-brancer of Legal Affairs Senior Government Pleader

Public Prosecutor Calcutta.

Registrar Keeper of Records Taxing Officer Accountant-General, and ete Original Jurisdiction Sealer Deputy Registrar Temporary Registrar in Insolvency

Master and Official Referee.

Assistant Registrar (Offig Dy Regtr) Clerk of the Crown for Criminal Sessions.

Secretary to the Chief Justice and Head Clerk Decree Department (sub pro tem

Registrar and Taxing Officer Appellate
Jurisdiction

Assistant Registrar Officiating Official Trustee and Official

Assignes. Official Receiver sub pro term Coroner of Calcutta.

Off Editor of Law Reports Deputy Registrar

### **Bombay Judicial Department**

Scott, The Hon ble Sir Basil Kt, MA Bar-at-Law Shah The Hon'ble Mr Lallubhal Asharam MA LLB

Batchelor The Hon'ble Sir Stanley Lockhart Kt B a. 105 Davar The Hon ble Sir Dinsha Dhangibhai Kt Bar at-Law Beaman The Hon ble Mr Frank Clement Offley L.C.S. Heaton The Hon ble Str Joseph John LC 8

McLeod The Hon ble Mr Norman Cranstoun BA, Ber at Law Jardine M R The Hon ble Mr French George Douglas

Klasim Joseph, M.A. IL B., Bar at Law ad 8 Nicholson Eustace Ferrery

Slater John Sanders, B A. Bar at Law

Abdeali Muhammad Ali Kaziji B 4 , LLB Bar at-Law

Jijibha: Edalil Modi Bar at Law

Vasantrao Anaudrao Dabholkar Allison, Frederick William B.A. L.O.S Nasurwanji Dinshahji Gharda, B A. LiuB Chief Justice Puisne Judge.

Ditto

Ditto

Ditto Ditto Ditto

Advocate General sub protom.

Remembrancer of Legal Affairs

Assistant Remembrancer of Legal Affair Government Solicitor and Public Prose-

cutor Official Administrator General and Trustee

Prothonotary Testamentary and Admi

ralty Registrar
Master and Registrar in Equity and
Communication for taking Accounts and Local Investigations and Taxler Officer

Bhoriff

Registrar Appellate Side Deputy Registrar and Scaler, Appellate Side

# Bombay Judicial Department-contd

Lambert, E. T. Wunen, Dr. W. Sharam Sundersto Patkar LLB

Coroner (On kave ) Acting Government Pleader

COURT OF THE JUDICIAL COMMIS SIGNER OF SIMD

Pratt Edward Millard 108.

Judicial Commissioner Acting Additional Judicial Commissioner

Hayward Maurice Henry Weston LLB Bar at law Crouch, Henry Acwton LLB, Bar at Law

Additional Judicial Commissioner, Acting Purene Judge Additional Judicial Commissioner

# Madras Judicial Department

Wallis the Honble Sir John Edward Power Lt M.A. Bar-at-Law Odficial, The Hon ble Mr Prancis Du Pre 10 % Speacer The Hon ble Mr Charles Gordon 10 % Trottler The Hon ble Mr Veton Murray Coulis Abdur Ramim The Hon ble Mr., MA Bar at law Phillips The Hon ble Mr. WA Bar at law

örinivasa Ayyangar, The Hon ble Mr k Sadasiva Ayyar The Hon ble Mr I Diwau Bahadur Aying, The Hon ble Mr William Book Lo s Bakwedi, The Hon ble Mr James Herbert LLB Bar M-Taw Kumaraswami Shastri The Hon bla Mr ( V Diwan

Bahadur sariri Avvar, The Hon Mr T V., B A. B L., Dewan Rehedur

Corbot, Frederick Hugh Mackensic Bar at-Law David, William Ontario Mapier Charles F., Bar -at Law

Adam, John wa Bar-at Law Grant, P. R. Bar-at-Law Odgen, The Hon ble Mr. O. B. wa Bar at Law

Mackey Charles Gordon, K.A. 108
The Hon bl- Shifa of Mull, Zymulabdin

Chlef Instice

Put ne Judge Ditto Ditto Ditto Dittu

Ditto Ditto Ditto

Ditto Lemporary (Additional)

Ditto (Officiating).

Offg Judge Temporary (Additional)

Advocate General Government Solicitor Government Pleader and Public Prose-

cutor Crown Prosecutor Law Reporter Administrator-General Official and Trustee

Registrar Sheriff

#### Assam Judicial Department

Abdul Majid, The Hon Mr BA LLB Bar at Law

Graham, John Fuller Jeffries, Francis Joseph

Sarada Presad Bakshi B.L.

Judge and Superintendent and membrancer of Legal Affairs Shillong Judge Assam Valley Districts thauhati District and Sessions Judge, Sylhet and Cacher Omelating District and bessions Judge

Sylhet and Cachar

### Bihar and Orissa Judicial Department.

Sandemon Sir Lancelot Woodcoffe The Hon'ble Sir John George Mt MA BCL Makharit, The Hon'ble Sir Ashntosh, Kt CSI MA DL.	Chief Justice Pulme Judge Ditto
Hohawood The Hon'ble Mr Herbert 1 C S. Chitty The Hon'ble Mr Charles William, Bar at Law Metcher The Hon'ble Mr Rarnest Edward Bar at-	Ditto Ditto Ditto
Law Shari-nd-din The Hon'hie Mr Satyid, Bar at-Law Cene, The Hoa bie Mr Henry Reynell Holled 10.5 Chainti, The Hon'bie Mr Digamber M.4., R.s.	Ditto Ditto Ditto.

Biliar and Otion are to be separated from the Bengal Judicial Department in 1916 and to have their own High Court at Pates.

# Bihar and Orissa Judicial Department-contd

Chatarji, The Hon ble Mr Naihi Banjan MA. BL Loumon The Hon ble Mr William LCE Richardson The Hon ble Mr Thomas William Bar at-Pulspe Judge. Ditto Ditto Law thandhuri The Hon Mr Ashutosh Bar at-Law Imam The Hon ble Mr Salyid Rassan Bar at Law Beachtroft The Hon Mr Charles Porten 16.8 Ditto Ditto Tiltto Chapman, The Hon Mr Edmund Pelly 10% Ditto (Temporary) Mullick The Hon ble Mr Basanta Kumar 108 Greaves The Hon ble Mr William Fwart Bar at Ditto Ditto Ditto Ditto Law Walmeley The Hon ble Mr Hugh 1 ( 8 Ditto Ditto Ádditkonsi Kenrick The Hon ble Mr George Harry Blair K ( Advocate General Mitra Che Hon Mr Blood Chandra Bar at Law Standing (ourse) Kesteven The Hon ble Mr. Charles Henry Covernment Solicitor Adami The Hon ble Mr LC Superintendent and Remembrancer of Legal Affaire Vallni Vohan Chatarii Bar at Liw Master and Official Referee Hechl. James Herbert Registrar Keeper of Records Accountant-General and Sealer etc Origi nal Jurisdiction Bonnend William Augustus Bar at Law Clerk or the Crown Crey Charles Edward Bar at-Law Official Trustee and Official Assignee Bonnerlee K K. Shelly Bar at Law Official Receiver sub pro tem

### **Burma Judicial Department**

Fox The Hon ble Sir Charles Edmund Kt Bar at Chief Judge Chief Court Lower Burma. LAW Hartnoll The Hon ble Sir Henry Sullvar Kt 108 Judge Bar et Law Ormond, The Hon ble Mr Ernest William B.A., Bar Judge (On leave) Twomey, The Hon ble Mr Daniel Harold Ryan I C S., Bar -at Law Judge (On leave) Robinson The Hon ble Mr Sydney Maddock Bar Judge (On leave) Pariett, The Hon'ble Mr Leonard Montague (Officiating) Judicial Commissioner Upper Burna. Young, The Hon ble Mr Charles Philip Radford BA. Government Advocate. Bar at Law Sen, Purns Chundra Bar et Law Official Assignee and Receiver Rangoon Christopher S A Bar at Law Government Prosecutor Rangoon Government Procedutor, Moulmein, Registrar Chief Court, Lower Burma, Registrar Court of Judicial Commis-sioner Upper Burma Darwood, Arthur John Bar at Law Brown Ralph Roberts B.A 1CS Miller Edward

#### Central Provinces. Judicial Department.

Drake Brockman Sir H V M & LL.M Bar-at-Law LC.B Batten, J K , 108 Stanyon, H, J., Cl.M , YD A.D.C Bar-at-Law

Roughton, W J, 10 B. Parande K G Judicial Commissioner

First Additional Judicial Commissioner, Second Additional Judicial Commissioner Begistrar Deputy Registrar

# N W Frontier Province Judicial Department

Berton W P C.I.E. LOS Muhammad Yakub Mufti

Judicial Commissioner Registrar

Second Temporary Additional (Judge )

# Puniah Judicial Department

Johnstone The Hon ble Mr Donald Campbell, 108 Battigan, The Hon ble Mr Henry Adolphus Byden B A Chic Judge Judge

Shah Din The Hop ble Mian Muhammad Bar at Law Judge

Smith The Hon blo Mr. H. Scott, 108 Judge

Judge

Chevis, The Hon ble Mr William ICS Shadi Lai The Hon ble Mr Ray Bahadur Bar at Law First Temporary Additional (Judge )

Le Rossignol The Hon Mr Walter Aubin, 10 s

Gracey B W B.A. 108 Legal Remembrancer

Petman Charles Bevan B. Bar at Law Government Advocate Campbell, Archibald, B A. 1 C S Registrar

# United Provinces, Judicial Department

Richards, The Hon ble Sir Henry George Kt Bar -at Law, K.0
Knox, The Hon ble Sir George Edward Kt M.D LC.S

Banarji, The Hon ble Sir Pramada Charan Kt., B & B L. Pinrott, The Hon ble Mr. Theodore (aro 1 0 8 Ditto

Ditto

Tudball, The Houble Mr William 108 Ditto Chamter The Hon'ble Mr Edward Maynard Des | Ditto

Champs Bar at Law Rafig, The Hon ble Mr Muhammad Bar at Law Ditto

Murray George Ramsay I C 8 Registrar

Ashworth, The Hon'ble Mr R H 10.8 Legal Remembrances Ryves, Alfred Edward, BA. Bar at law Government Advocate

Porter Wilfred King, Bar at Law Law Reporter and Secretary Legislative Council

Lalit Mohan Banaril Government Pleader

COURT OF JUDICIAL COMMISSIONER OF OUDS-LUCKNOW

Lindsay Benjamin, 1 C 8. Stoart, Louis, 1.C 8. Rel Kanhaiya Lal, Bahadur

Cordeux, C. H., Ber at-Law Magendra Nath Ghosal

Judicial Commissioner First Additional Judicial Commissioner Second Additional Judicial Commissioner Temporary Registrar

Government Pleader

NUMBER AND VALUE OF CIVIL SUITS INSTITUTED

			Number o	Number of Suits Instituted	stituted			\under	Total	10te
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	1905 316 370 1904 310 670 1903 807 085	787 784 0 789 459 5 781 844	314 422 823 978 312 675	\$14 048 \$14 511 801 179	37 182 35 422 34 143	23,315 21,996 20,742	4 124 4 048 8 643	7.203 7.263 6.694	1 804 445 1 817 846 1 767 966	24,496 879 82,453,180 25 656 677

Decads not given of 42 Bombey suits in 1906 66 Madres auts in 1906, 96 in 1907 74 in 1908, 71 in 1909, 878 in 1910 71 in 1911,
 and 64 auts in 1912 and 370 Bongal suits in 1909

# THE INDIAN POLICE

men in the ranks of the indian Police who are superior, the Sub-inspector. They have no controlled by 749 Gazetted European Officers powers to investigate offsuces and are a survival in large cities, the Force is concentrated and of the perior, when the country was in a disturbed ander direct European control in the medual state and small bodies of Police were required the men are scattered throughout each District to keep open communications and afford pro-Stations. The smallest unit for administrative question whether they are now of much use, purposes is the Outpost which sear-raily consists of 3 or 4 Contabile under the control of a scotteried by an officer station which sixts of 3 or 4 Contabile under the control of a scotteried by an officer station which Head Constable Outpost Police are main tained to petrol roads and villages and to

The Indian Government employ 192,791 report all matters of local interest to their and located at various Outposts and Police tection against the raids of decoits. It is an open Inspector

Distribution of Police -The area of a Police Station varies according to local con ditions. The latest figures available are -

		Average area per Pollee Station		Average number of Regular Civil Police per 10,000 of Population		
	-1	Square miles				
Bengal *		138		4	4	
Rautern Bongal and As-am	1	358		3	4	
United Provinces		127		7	G	
Punjab		210		9	6	
North-West Frontier Province		179		18	5	
Central Provinces and Berst		275		8	6	
Burna *		300°		13	1	
Madras	,	106		7	8	
Bombay *		290	Ì	12	9	

<sup>\*</sup> Excluding the towns of Calcutta Bombay and Rangoon The figure include the Railway police but not Military police.

#### Organisation of Police

The Police Station Officer (the bub Inspec Districts, is divided into 2 Sub-divisions—one for his responsible for the investigation of all cognisable crimes that is to say, all offences in deal of Police, a Buropean setted Officer which the Police can arrest without a warrant from a Magistrate, which occur within his jurisdiction. He is also held responsible for the presponsible to the District Bagistrate (Collector responsible to the District Bagistrate (Collector maintenance of the public peace and the pre-vention of crime. From the point of view of the Indian Byot he is the most important Police Officer in the District and may rightly he considered the backbone of the Force

Superior to the Sub-Inspector is the Inspector who holds charge of a Circle containing 4 or 5 Police Stations. His dudies are chiefly those of supervision and inspection. He does not ordinarily interfere in the investigation of crime unless the conduct of his subordinates readers this necessary

In a roller force in each place it is controlled by a District Superintendent of Police, who is responsible to the District Magistrate (Collector or Depaty Commissioner) for the detection and or resention of crime and for the maintenance of the public peace and to his Deputy Inspector General and Inspector-General, for the internal administration of his Force. Eight or ten Dissummeration of the rore. Light or can be stricts form a Range administrated by a Deputy Inspector-General, an officer selected from the ranks of the Superintendents. At the head of the Police of each Province is the Inspector-General who is responsible to the Local Government for the administration of the Provincial Police.

The Inspector is usually a selected and experienced Sub-Inspector Ruch District con ment which is under the control of a specially initial 8 or 4 Directes, and in the case of larger selected European Officer of the rank and

standing of a Deputy Inspector General. The Criminal Investigation Department, usually called the C I D, is mainly concerned with political inquiries sedition cases and crimes with ramifications over more than one District or which are considered too important to leave in the hands of the District Police. It is a small force of Sub Inspectors and Inspectors who have shown their ability and intelligence when working in the mojustil and forms in each Province a local Scotland Yard

The larger Cities of Calcutta, Bombay and Madras have their own Police Force independent of the Inspector-General of Police and under the control of a Commissioner and 2 or more Deputies The latter are selected Super intendents who have learnt their work in the mofusell For Police purposes the City area is divided into divisions under the control of non-gatetted Buropean officers, styled Tuper Intendents but not to be confused with District Superintendents. Each division contains a number of Police Stations controlled as in the notused by Inspectors and Sub Inspectors
A comparatively small number of Europeans
are recruited in cities from British regiments
for the entrol of traffic They have no powers of investigation

The Supreme Government at Delhi and Simla keeps in touch with the Provincial Police by means of the Director of Criminal Intelli gence and his Staff The latter do not interfere in the Local Administration and are mainly concerned with the publication of informs then regarding international criminals interprovincial crime and Political inquiries in which the Supreme Government is interested

Recruitment.—The constable is calleted locally Certain castes are excluded from service and the formation of cliques by filling up the Force from any particular caste or local ty is forbidden. In some Provinces a fixed percentage of foreigners must be enlisted Recruits must produce certificates of good character and pass a medical test. They must be above certain standards of physical deve lopment. The constable rises by merit to the rank of Head Constable and prior to the Police Commission could rise to the highest Indian aubordinate appointments Since 1966 his chances of promotion have been greatly cur tailed this has certainly lowered the standard coming forward for service in the Force in the lower ranks.

The Sub Inspector until 1906 was a selected Head Constable, but Lord Curson a Commission laid down that Sub-Inspectors should be recruited direct from a socially better class of Indians In most Provinces, eighty per cent. of the Sub-Inspectors are selected by nomination trained for a year or 18 months at a Central Police for a year or 18 months at a Central Police School, and, after examination appointed direct to Police Stations to learn their work by actual experience. It is too early to judge this system by results, but it has no doubt great deadvantages and undetected crime in India is increasing rapidly

An Inspector is generally a selected Sub-Inspector Direct nomination is the exception not the rule,

The Deputy Superintendent a new class of officer instituted on the recommendation of omeer instances on the recommendation of the Commission is an Indian guretted officer and is the native Assistant to the District Superintendent of Police He is either selected by special promotion from the ranks of the Inspectors or I nominated direct after a course at the Central Police School

Prior to 1893 the gazetted ranks of the Force were filled either by nomination or by regiment-al officers seconded from the Army for certain periods. In 1898, this system was abandoned and Assistant Superintendents were recruited by examination in London On arrival in india they were placed on probation until they had passed their examinations in the vernacular in law and in riding and drill The establishment of Police Training Schools in 1906 has done much to improve the training of the Police Probationer and selection by examination has given Government a better educated officer but open competition does not reveal the best administrators and should be tempered as in the Navy by selection

Pay -The monthly salaries drawn by each grade of Police Officer are as follows --

A constable draws from	Rs.	10 to	12
A Head Constable draws	,	15 to	20.
A Sub Inspector from		50 to	100.
An Inspector from		150 to	250.
Deputy Superintendents from		<b>2</b> 50 to	500
Assistants from		800 to	600.
District Superintendents of		Nn +- 1	900

Police from Rs. 700 to 1 200

Deputy Inspectors General from Rs. 1 500 to 1 800. Inspectors General from Rs. 2,000 to 3,000

The appointments of Commissioner of Police, Calcutta, Bombay and Madras and all Provincial Inspectors-General, may be held by a member of the Indian Civil Service if no Police Officer is found suitable for such appointments

Internal Administration -The District Force is divided into 2 Branches—Armed and Unarmed. As the duties of the armed branch Unstruct. As the duties of the armod branch consist of guarding Treasuries eccording treasure and prisons and operating against danger on an armod and drilled and taught to shoot after military nethods. They are armed and drilled and taught to shoot after military nethods. The unarmed branch are called upon to collect fines magisterially inflictcalled upon to collect fines magnifectally inflicted acrive summonses and warrants control traffic destroy stray dogs extinguish firesenquire into accidents and non-cognusable offences. The lower grades are clothed and housed by Government without expense to the individual The leave rules are fairly liberal, but every officer. European or Native, must serve for 30 years before he is entitled to any pension unless he can obtain a modical certificate invaliding him from the service. This period of service in an Eastern climate is generally admitted to be too long and the efficiency of the Force would be considerably improved if Government allowed both the officers and men to rothe after a shorter period of services. men to retire after a shorter period of service

#### Statistics of Police Work.

The undestrability of attaching undue importance to statistical results as a test of the needs of police work was a point upon which considerable stress was laid by the lindian Police Commission who returned to the gylls likely to result from the prevalence among subordinate officers of an impression that the advancement of an officer would depend upon his being able to show a high ratio of convictions, both to cases and to persons arrested, and a low ratio of orime. The objection applies more particularly to the use of stablistics for small areas, but they cannot properly be used as a basis of comparison even for larger areas without taking into account the differences in the conditions under which the police work and the major and the statistical carry out that important branch of their duties, which consists in the prevention of orime. These considerations have been emphasised in recent orders of the Government of ladia. Subject to these observations the figures below may be given as some indication of the statistical results in different provinces —

				Persons wh	OSC CASCS	were disp	ossed of	Persons
Administ	tretions	Number of Offences reported	Yumber of Persons under I riul	Dis charged or lequitted	( au virted	Com nutted or Referred	Died Becaped Or Frans is reed to another Province	remain ing under I rial at the end of the year
Bengal		3- 3 309	298 143	93 576	192 246	2 580	140	9 60 6
Bihar and O	Tara	112 91,	107 859	50 609	ა0 ყ£0	1 615	9,	4 411
United Provi	necs	222,817	37LB 3 <b>0</b> 6	187 00 3	118 444	4 7H1	200	<b>, ₽£</b> U
Punjab(inchi	idi <b>ng</b> Delha)	231 253	330 121	238 -24	75 142	1771	241	1425
North West Province	Frontier	25,41	JN 678	<b>72,3</b> 0	14 494	4No	17	8-1
Barma		106 440	1 88 941	70 416	106 083	2 1 44	2 199	7 % 9
Central Pro Berar	ovinces and	39 820	J6 680	32191	19 810	1 100	1ن	3 127
Assem		40 862	33 <b>754</b>	18 265	14 784	484	د3 ا	2183
Ajmer Merw	ar#	10 698	12 969	4 292	" 96H	l I	94	625
Coorg		2 489	1037	1 741	1 038	13	7	240
Madras		353 167	102 155	2.16 965	246 5 ,3	4 178	141	14 318
Bombay		172,103	203 310	112 842	126,507	2 127	42%	10 862
British Balue	histan	J 786	10 796;	6 40 <sub>0</sub>	J (168	İ	133	1 190
r	OTAL 1912	1 659 2.4	2,132,813	1 053 657	977,267	21 6 <sub>0</sub> 0	4 713	75 765
	1911 1910	1,502,995 1 447 732	1 980 679 1 884 971	9 <b>06</b> 784 9 <b>22</b> ,479	897 786 872 <b>29</b> 8		1 900 4 43 9	70 802 64,617
	1909 1908	1 421,350 1 412 817	1 856.219 1 844 207	914 500, 897 462	854 658 860 06a		3 349 3, <del>82</del> 5	61,50 <b>2</b> 58 496
TOTALS	1907 1906	1 411 653 1 404 777	1 816 827 1,805 787	880 70 6; 864 408	851 097 860 486		3,505 3 911	60 223 54,041
	1905 1904 1903	1,385,344 1,370,002 1,325,662	1,767 134 1,768 411 1,760,038	822 185 830 019 781,347	862,398 843 369 827,810	20 144	6 420 7 340 5,855	53 825 57 533 65 666

-		Howe-trapass and Housebreak ing with intent to commit Offence.	Convic tion obtained.	105 5211 125'8 5211	45. 1 451 640 3,863 735 2,45 4	262	2,659 164 09 678 1.215	719 537	966 2483 968 1886 148 407	480 20178	285 285 287 287 287 287 287 287 287 287 287 287	_		-
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		y Thedt	Convior tion obtained.	4 023	3 242 6 071 1 1 14	7.8.	5 504		4 708 4 557 2,892	38 956	87 501 87 279 40 872			
		Ordinary	Reported	2 4951	17 178 41 748 11 767	•1337	11 640 1 148 12 743	4 27	21 984 16 947 4 968	178 091	166 904 159 280 169 451	178 898	128 888	
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	\ 	Administrations.	ļ	Bengal Calcutta, Town	 E	Delbi) K West Proutier	vince. Berroa Rangoon	Berar	Coors Madres Bornias Peraday Towk Alsland	TOTAE, 1912		TOTALS		-

Including some cases of cattle theft

#### JAILS.

india and the local governments. The punish repairs, and in workings. The main principle useds authorised by the indian Penal Code for laid down with regard to jail manufactures is convicted offenders include transportation that the work must be pound and industrial penal servicede, rigorous imprisonment (which The industries are on a large scale multilarious may include short periods of solitary confinement), and simple imprisonment Accom is taken that the fall shall not compete with
modalion has also to be provided in the jails local traders. As far as possible industries are for civil and under trial prisoners.

The origin of all fail improvements in India consisted of only two members both officialverying under the Government of India, is extremely long and reviews the whole question of jail organization and administration in the minutest detail. In most matters the Commissions recommendation have been accepted and adopted by Local Government but ie various matters mainly of a minor characob satio as unsuit d to local conditions about doned as unworkable after careful experiment or accepted in principle but postponed for the present as impossible

The most important of all the recommenda tions of the Commission the one that mount in fact be described as the corn r store of their report, is that there should be in each Presi dency three classes of lails in the first place, large central jails for convicts sentenced to more than one years imprisonment se-condity district falls at the head-quarters of district and thirdly subsidiary jails and "lock-ups for under-trial prisoners and convicts sentenced to short terms of imprison ment. The bill department in each province is under the control of an Inspector-General, he is renerally an officer of the Indian Medical Service with jall experience and the Superin tendents of certain jails are usually recruited from the same service. The district fail is under the charge of the avvi surgeon and is frequently happened by the district magistrate. The staff under the Superintendent includes in large sentral laik, a Deputy Superintendent to super was the jall manufactures and in all central and district jalls one or more subordinate medical officers. The executive staff consists of failors and warders, and convict petty officers are employed in all central and district tails. the prospect of promotion to one of these posts being a strong inducement to good behaviour. A Press Note issued by the Bombay Govern ment in October 1915 save — The cadre and empluments of all ranks from Warder to Super intendent have been repeatedly revised and attered in recent years. But the Department altered in recent years is not at all attractive in its lower grades two weak spots in the jail administration at the moment are the (naufficiency of Centra) Prisons and the difficulty of obtaining good and sufficient warders

fall administration in India is regulated number of convicts were employed in excavating generally by the Prisons Act of 1894 and by the Jheuru Canal in the Funds Within the rules lauted under it by the Government of walls privates are employed on isli savies and adapted to the requirements of the consuming public departments and printing tent making In record years was the Jail Condision of and the manufacture of clothing are among the 1889. The report of the county-sion which commonest employments belooding is our consisted of only two me the re-both official, fined to juveniles the experiment of teaching adults has been tried but literary instruction is unsuitable for the class of persons who fill an Indian jali.

> The conduct of convicts in fall is generally good and the number of deperate characters among them is small Failure to perform the in a large majority of cases the punishment inflicted is one of those classed as minor Among the major possishments fetters take the first place. Corporal punishment is inflicted in relatively few cases and the number is tewlify falling. Punishnums were revised as the r suit of the Commission of 1989 Two notable publishment the abolished were sharing the heads of female prisoner and the stock In latter which was apparently much practisod in Bombas was described by the Comines lon as inflicting exquisite tortun in its are not scheduled and grad dinto major and minor. The most difficult of all july probl m. is the lot rual maint Lance of order anong the prisoner for which purpose paid warders and compart warders are employed With this is bound up the question of a special class of well b haved priceers which was tried from 19 to onwards in the Think Jall

> Juvanile Prisoners - 4s regards ful offenders -t.e those below the age of 15 -the law provides alternatives to imprisonment and it is strictly enjoined that buys shall not be sent to jail when they can be dealt with other wise. The alternatives are detention in a reformatory school hir a period or from three to seven years, but not beyond the age of 18 discharge after admonstron delivery to the parent or guardian on the latter executing a bond to be responsible for the good behaviour of the culprit and wnipping by way of school discipline.

The question of the trasment of young adult prisoners has in recent years received much attention. Under the Prisons Act, pri soners below the age of 18 must be kept separate from older prisoners, but the recognition of the principle that an ordinary fail is not a fitting place for adolescents (other than vouthful habitusis) who are over 15, and therefore in eligible for admission to the reformatory school, has led Local Governments to consider scheme Employment of Prisoners.—The work for going beyond this by treating young adults on which convicts are employed is mostly on the lines followed at Borstal and considerable carried on within the jall walls, but extra-progress has been made in this direction. In 1905 a special class for selected juveniles and young adults was established at the Dharwar

iall in Bombay, in 1908 a special juvenile night. Having thus completed five years, a jail was opened at Allipore in Bengal in 1909 convier may be promoted to the second class, the Meltital still in Burms and the Tanjore jail in which he is eligible for employment in the in Madras were set aside for adolescents, and a new jail for juvenile and juvenile adult convicts was opened at Bareilly in the United Provinces and in 1910 it was decided to con contrate adolescents in the Punjab at the Lahore District jail which is now worked on Borstal lines Other measures had proviously Borstal lines Other theasures and proviously been taken in some cases a special reformatory system for juvenile adults had for example, been in force in two central jails in the Punish since the early years of the decade, and Borstal enclosures had been established in some pails in Bengal But the public is above to ans in beagain has a duty towards promores mural work under strict hall discipline for three and but little progress has been made in the years for the next two years they are subjected formation of Prisoners Ald Societies except to a lighter discipline and at the end of five by the Salvation Army

Reformatory Schools -These schools have been administered and 1899 by the Edu directed to improve the industrial education of the humates to help the boys to obtain employ ment on leaving school and as far as possible to keep a watch on their careers

Transportation —Transportation is an old purishment of the British Indian (riminal law and a number of places were formerly appointed for the reception of Indian transported convicts. The only penal settlement at the present time is Port Blair in the Andaman I lands. Luder existing rules convicts sentence to transportation for Illicor for a term of years of which six have still to run min be transported to the Andamans subject to their being physically fit and to some other conditions in the case of women The sanctioned acheme contemplates five stages in the life of a male transported convict, the first six month being passed in a cellular fall, the next eighteen months in asso clation in a jail similar to those of the Indian mainland and the following three years as a

various branches of the Government services or in the capacity of servants to a private resident After five years so spent a well behaved convict enters the first class in which he labourunder more favourable conditions or is granted a ticket quahing him to support himself, with a plot of land He may now send for his family or marry a female convict. The three fater stages of this discipline have been in force for many years and the first for some time, the cellular jail having been finished in 1905 but the associated fail for the second stage has not yet been built. Females are kept at intra-mural work under strict fall discipline for three years they may support themselves or marry Promotion from class to class depends on good service in the erection and repair of jail build lings in the commissered ings in the commissariat, medical, marine and forest departments in tea-gardens and at other agricultural work and in various jail manu-facture. Ordinary male convicts centenced to transportation for life are released, if they have behaved well after twenty years, and persons convicted of dacoits and other organised crime after twents five Thays and pro-fessional prisoners are never released well-blasted female converts are released after fifteen years. The release is sometimes absolute and sometimes, especially in the case of lacorts subject to conditions eg in regard to residence In some cases released convicts prefer to runain in the actionment as free persons. The settlement is administered by a super intendent anded by a staff of European againtants. and Indian subordinates. The convict population of Port Blair amounted in 1912 to 11,285 consisting of 10 633 males and 602 females, of whom 1 566 and 272 respectively mostly occupied as cultivators were self-supporters. convict of the third class kept to hard gang. The total population of the settlement was labour by day and confin d in barracks by 15 613

The variations of the fail population in British India during five years are shown in the following table ---

	1017	101	1011	1 210	1909
tail percelation of all last of last January Admit slone during the angle	101 ዓበአ 102 ይህዛ	91 576 435 440	10_201 470 51	104,015 4 3 245	104,41 <b>3</b> 493 592
tegress   Phacharged during the arriveneal causes	91 215 458 6,7	544 U98 152-48	5° 3 50 3 481 6	o∺1 ±68 480 268	598,005 493,999
fall population on 31st for inter	95 د 100	101 910	91 88_	102,990	104,006
Convict population on 1st January Admissions during the year	80 <b>2</b> 87 160 551	79 688 159 444	91 506 152,590	92 680 155 519	92,130 160 999
Aggregate Released during the year Transported beyond seas Casualties &c	20138 154 494 1 568 2,053	239 092 147 292 1 382 2 084	243 901 151 936 1 138 2,222	248 399 155 338 1,106 2,304	253,129 157 715 828 2,705
Convict population on 11st December	02,918	89 287	79,668	91 506	92,879

The daily average number of prisoners, which had steadily decreased since 1908, rose slightly to 1918 to nearly the figure of 1911. The fall in 1912 was however, largely attributable to the release of donvious and divil prisoners on the occasion of the Delhi Durbar. The increase in 1913 was distributed among all provinces errors the United Provinces of Agra and Oudh and Coorg, in which the figures continued to show decreases

More than one half of the total number of convicts received in jails during the year came from the dames engaged in agriculture and cattle tending over 132 000 out of 160 000 are returned as litterate.

The percentage of previously convicted prisoners was 17 29 as against 16 45 in 1912, while the number of youthful offenders fell from 726 to 626. The following table shows the nature and length of sentences of convicts admitted to jails in 1912 and 1913.

Nature a	nd Length of Sentence	1918	1912
Not exceeding one month		43,300	44 080
Above one month and not e	roseding six months	ot 58/1	02,020
six months	one vear	29 245	2" 689
one veat	five years	21 394	20 5 3
" Ave years	ten	2 280	2,336
Exceeding ten years		112	-31
Transportation beyond sea	5 <del>-</del>		
(#) for life		1 148	1 05
(b) for a term		7.9	72
Sentenced to death		870	76

# Executive and Judicial Functions.

Throughout the history of political agitation in India, few matters have received agreement intuits, lew matters have received more consistent attention than the question of the separation of the Judicial and the Ex-cutive functions. It has been one of the prin-cipal planks in the political platform of the National Congress since its inception in 1885 and has received the support of men of every shade of political opinion from the most violent Extremist to the most conclisiony Moderate.

The question arises from the fact that the Indian Administration is based on the Oriental view that all power should be concentrated view that all power should be comentrated, in the hands of a single official. Thus the District Magistrate is the chief revenue authority in the District, ac control local boards and municipalities and directs the District Police and in fine almost every department within the District is to a large extent under his influence Sessions trials and Civil Justice fall within the province of the District Judge but there remains under the District Magis trates orders a hody of subordinate Magis trates who dispose of simple criminal cases and commit graver ones to the Sessions.

The opponents of the existing system are apt to rely largely on ad capitandum phrases like the maintenance of judicial independ the maintenance of judicial independ and a violation of the first principles ണവര ence and a violation or the first principles of equity rather than to specify eastly what points they really consider objectionable. It appears, however that there are two mean items in the District Magistrates position to which exception is taken one is that he is executive head of the District with direct con trol of the police has the power of trying cases; the other is that the subordinate Magistrates, who try the great majority of cases are directly under him receive his orders, and raly on his good opinion for their promotion

good opuron to their prometers.

As regards the first point, the number of cases actually tried by the District Magistrate is exceedingly small. Sir Charles Rilliott defending the existing system in 1896 said.

There are many Districts in Bengal in which

miscellaneous work has increased so much that even this small number has been greatly reduced In fact in Bombay to-day the majority of District Magistrates probably go through the year without trying a single case, and the difference would hardly be noticeable and the district Magistrate altogether lost his powers to try cases. The power is however andicently useful on occasions to outwelch sufficiently useful on occasions to outwelch the fear of harm arising from any abuse of that power on the rare occasions when it is used.

The more important item of the District Magistrate power that of control over his subordinate Migistrates, is attacked on the ground that he interferes with their judicial independence. It is here assumed that cou independence. It is here assumed that control and interference are one and the same thing. If the District Magistrate said to his subordinate. I consider this man guilty, and I expect you to convict him, there would be very real cause for complaint. But interference of this type does not be unit and is set. trol and interference are one and the same thing If the District Maghtrate aid to his subordinate 'I consider this man guilty, and I expect you to convict him, there would be very real cause for complaint But interference of this type does not occur and is not farence of this type does not occur and is not alleged. It has been said that inspection in magnitude. Further it is surely to the District Officer the very breath of his inosticia, and it is very largely to the continued to the public should be controlled by the District Magistrate, inquisitiveness into the work of his subordinates,

political received attained by the subordinate magistrary in the Exchange of the subordinate magistrary in the Exchange of the points towards which he inquiries are most frequently directed are matters like want of sense of proportion in an of the seatences delays and irregularities in procedure subservience to the interests of a local carety. bar prolixity in judgments and so forth. It control of the Magistracy were exercised only by the District Judge who is practically the to his bench, this supervision would be impos-sible and the only check on the subordinate Magistrates would be occasional strictures passed by the Judge in appeal or on revision.

The opponents of the existing system would

substitute for the present Magistracy trained lawyer, whose sole work would be that of stipendlary magistrates. There is no reason to suppose that the trained lawyer would be any less liable to the faults mentioned above. Nor is the Magistrate of to-day attogether untrained. The criminal law of India is to a very large extent independent of customary and case law and is based on comparatively simple codes Every official Magistrate is examined in these codes and with a few years experience he is often a match in argument for all but the best of the local vakels. It is not, therefore, apparent that any gain would result from this change while the increased charge

to the public revenues would be enormous.

In 1899 the movement against the existing system culminated in a memorial on the proposed separation of the Judicial and Exememorial on the proposed separation of the Judicial and Executive duties in India addressed to the Secretary of State and signed by ten Indian gentlemen—mostly high judicial authorities. This memorial sets forth eight objections to the existing system and it may perhaps be in structive to examine these seriatin, and to indicate with respect to each point the grounds on which an apology for the present system may be based.

(1) That the combination of judicial-with executive duties in the same officer vio-lates the first principles of equity

insee the first principles of equity. If the same officer actually brought an offend or to justice, and then tried him personally the above theoretical objection might have considerable weight. In practice, however as has been above above this does not occur, and the combination of functions in the District Officer is governed in such a way by ori-minal codes that the interests of accused persons

are effectually eafeguarded.
(2) That while a judicial authority ought are enectionly sengulariosi.

(2) That while a indicial authority ought to be thoroughly impartial, and approach the consideration of any case without previous knowledge of the facts, an Executive Officer does not adequately discharge his duties, males his care are open to all reports and information which he can in any degree employ for the benefit of the District.

zalier than by a police officer whose protes ntimel seel suight weigh hardly on the impount suspect, and whose seprit de corps suight shield a corrupt or unscrupsions

substitute from justice.

(3) "That Executive Officers in India, being responsible for a large amount of miscellaneous poss of judicial work in addition have not time satisfactorily to dis

By this it is presumably meant that the Executive Officer is at present overworked This is quite possible but the remody would appear to he rather in an increase of staff

in itself could not remedy the defect

(4) That, being keenly interested in carrying out parts alar measures they are apt to be brought more or less into conflict with indi viduals and therefore that it is moxnedient that they should also be invested with judicual

It is implied here that the District Officer may use his judicial powers to enforce the exeoutive measures in which he is interested. issue orders to subordinates (upoming severe sentences in particular classes of cases and this may have reference to a particular executive policy (e.g. such orders might be usued with regard to smuggling cases in a District where the illicit traffic in cocame was rife) But it by no means follows that any injustice will re uit from

such a line of action Moreover if this kind of interference by the District Magistrate were stopped, the only alternative left to Govern ment, in cases where they wished specially to repress a particular type of crime would be to amend the criminal codes by raising the min main penalty for the offence thereby depriving Magnetizates of all discretion in the matter
(5) That under the existing system (of

lector Magnetrates do in fact neglect judicial for exceptive work

It is not at first sight obvious how this can be unged as an objection to the fact that they do both types of work. It is true a already stated, that the Dutrict Magistrate tries very few original cases but it by no means follows that what indicas work he does, is done negligently

(6) That appeals from revenue assessments are ant to be fulle when they are heard by

Revenue Officers

It is instituted that all revenue matters should be decided by the operation of the weighty and complicated machinery of the Civil Courts. The idea of such a system in India, where three-quarters of the population are dependent on revenue-paying land con ures up such a ughtmare of contucton that the imagination positively reals. The cost would be coloused. Nor is the objection really The Revenue Officer when hearing species from executive acts of his subordinates appears from executive acts of the succentrative is still as Recentive and not a Judicial Officer and what is here almed at is a revision of the achieure of matters, which the law allows to be dealt with executively rather than a separa tion of the two functions.

(7) "That great inconvenience expense and unflatings are imposed upon softers required to failure the camp of a Judicial Officer, who is the electhorage of his executive duties, is making a hour of his District. great inconvenience expense

objections advanced against the existing eys-tem. In the first place a Magistrate in head quarters is likely to be at least as far from the homes of sultors, as he is in camp The careful Magnetrate, moreover, will arrange the hearing of cases at places which suit the convenience of parties as far as possible and considerable trouble and expense are often saved to parties in this way if all judical work were done by Magnetrates who had no other work, the number of Magnetrates would be much Magastrates in a District must be much less accessible than a dozen or more who are con tinually moving about among the agricultural population. The only people who really are inconvenienced by the touring of a Magnetrate are the pleaders

That the existing system not only and inconvenience put also by associating the judicial tribunal with the work of the Police and of detectives and by diminishing the saleguards afforded by the rules of evi is not unknown for a District Magistrate to dence, produces actual miscarriages of justice and creates though merice be done oppor tunities of suspicion district and discontent which are greatly to be deplaced

It is difficult to answer so general and in definite an objection at this except by flat denial. It may however be said that if miscarriages of pustue due to this cause were at all frequent they could never long remain hid, and much more would be heard of them than is actually case In 1896 Mr Manomohan Ghose a Bengali lawyer of repute drew up a memo randum containing an account of 20 cases which had come to his notice in the course of which has come to all house in the tours of a long experience at the bar and newhich he alleged that injustice had resulted from the union in one officer of the judicial and execu tive functions. These instances were discussed by Sir Charles Liliott formerly Lieutenaut t-overnor of Bengal in an article in the Amatic Quarterly Review for October 1896 and his analysis robs this evidence of nearly the whole of its weight

These then are the main objections which have been raised against the existing system. It may well be asked why if these objections are groundless has there been such unanimity in the opinions expressed by reformers. There are perhaps two reasons which are mainly respondible. Firstly it is beyond question that the proposed separation would everywhere weaken the Collector's position and thereby that of the British Raj and secondly those who desire the separation belong almost with out except the separation being almost with lawyers are most largely revuited. The separation would not merely provide lanumerable stipendiary tillets, holders of which would have to be recruited from among the lawyers but an immense increase of litigation would also result.

There is no doubt that over the greater part of India the common people place a very part of thinds the common people pince a very real confidence in the Magistrary and this confidence is largely based on the wise and offective control executed by District Magis-trates over their subordinates. Not is there any doubt that the common people would view with the most intense alarm any proposal hour of his District.

This is perhaps one of the least convincing out of this control.

# The Laws of 1915.

Av

### KATANLAL AND DHIRAJLAI

(Eddors of the Bombay Law Reporter)

In introducing busines at the very fir timetng of the Legislative council Hi 1 xc llency ir Vicercy said on the 1-th January 1 115. It is the desire of the Covernment of India that so far as may be possible, the discussion of all controversial que flor nould be avoided during the continuance of the war In regard to legislation not impudiat ly icur sary to us t the requirement of the present stimulion. Lend my covernment rousides that it would be most insolve able at this juncture where the hind of all ar concentrated on one object the protection of the Fuglic sesies a ruthle a sud p werful carmy to und risk, legi lation which might provoke anything approaching control versy and trution. W may have different points of vi w of methods or admini tratim and As to difalls of donnetti 1 gi-lation but in a time of common danger we hould preent an maited front and it I clearly our duty to shik all minor hif react and to cok and pursue but one object the successful conduct of the war again to the norms of the Pritish Empire. Accordingly the Cour if deterr dothers did not the ation of a number of mea are salready fate due d In the Council and postponed the introduction of other bill to the findual I rook dure the Amendment Bill the bill to the furth r protection of Minors the I'll dealing with contempt of ourt and the University I'll.

The Bills that passed into law do in the visit under review were more on his of Vinin contractors.

1 The Emergency Legislation Continuance Act - On the outbreak of the war the Viceros promulgated Ordinanes - nine manuaber under the powers conterned on him by 8 23 of the Indian Councils Act of 1861 The care (1) The Indian Naval and Military News (Figure gency) Ordinance (2) the Imprevment of Vessels Ordinance (3) The Foreigner Ordinance Thank (4) The Indian schufter Collusines (5) The Ingres late India Ordinance (6) Th Commercial Intercourse with Enemies Ordi nance (7) The Foreigners (Amendment) Ordinance (8) The Foreigners (Further Aunndment) Ordinance and (9) The Articles of Commerce Ordinance Three Ordinances have the same force as Acts passed by the Lagislative Council but they are subject to the infirmity that they out they are supplyed to the infiltrity that they are limited in point of time to a dustion of it months from their first promulgation. It is caucied by this Act, therefore that these Ordinances should be in toper during the continuance of the present war and for a period of six months thereafter. But if it appears that any of the Ordinances has become inoperative by the course of events the Governor teneral in Council may direct that any provision in any of the said Ordinances shall cease to be in force at any earlier date

- The Sir Sassoon Jacob David Baro tey Act —This Act was passed for settling netcy Act —This Act was passed for settling securities of the nominal value of thirty lakes of tupes and producing an unnual income of about Broom lakit and twenty thousand so as to an opipany and support the title and dignity of a Baronet conferred on Sir Sassoon Jacob Da id to hold to him and the heirs male of his body liwfully begotten Section 2 constitutes the Board of Trusters which could to of the Accountant il neral or Bombas the Chief Recretary to the Covernment of Lombay and the Collector of Bombay The with d property, which constitute of de barture of the Vanderjash Corporation of the City of Bombay of the nominal alue of R fourteen laking and bonds of the Trustees for the Improvement of the City of Louibay of the nominal value of rupoes air ten lake is to ve till those trusters (s. 3). The next witton deal with the application of income during the minority of any person for the time being entitled to the said dignity is 4) Power is given in the following two sections to ( wright without property for jointure of widow ( \* 5 ( ) The hold ref the dignity for the time beh , hi i o right to charg or encumber the t u tfund for any period beyond his natural inf (37) The settled property can be added to so a to reach the maximi m amount of pluets lakhs or rupees (s. 8)
- 5 The Foreigners (Amendment) Act --I nder the Foreigners Act (III of 1884) before a property can be accepted and removed the local officer had to obtain an order from Government. There was however no provi ion by which a for jen recould be placed under restraint during the interval which must clapse before the order of r moval could be obtained. The provisions or the t were thus liable to be evaded. This defect in law has been sought to be made good in this Amending Act by the addition of 8 &A to the Act The other while the Commitioner of Police in a Presidence Town or the District Magistrate in the molussil, to report the case of any foreigner to the Local Govern ment and at the same time to issue a warrant for the apprehension of such foreigner who may be detained in custody or released on ball pending the receipt of the orders of the Local Gov ernm nt
- 4 The Defence of India (Criminal Law Amendment) Act—The provisions of the Act like those of the Eur rgency Legislation Coathulance Act are to remain in force during the continuance of the present war and for a period of six months the reafter that is to say until the existement and disturbance of the general calm, which the state of war engenders, have had time to subgide. It is drawn upon the lines of the Defence of the Realm Act peaced in changiand at the outbreak of the War The

operative part of the Act Res in Its s 2, which gives powers to the Governor-General in Council to make rules. Those rules are to be made (a) to prevent persons communicating with the enemy (b) to secure the safety of His Majes ty's forces and ships (c) to prevent the spread of false reports or reports likely to cause disaffection or to promote feelings of enmity and hatred between different classes of His Males tv's subjects (d) to empower any civil or mili tary authority to secure the safety of railways, ports, telegraphs, post offices etc (a) to enable any naval or military authority to take posses any navas or numery authority to take posses son of any property movable or immovable, for military surposes (f) to empower any divid or military authority to direct any person who is suspected of having acted in a manner pre judicial to the public safety not to enter reside orremain in any specified area or to re main in such an area (g) to regulate possession of explosives arms, etc. (k) to prohibit any in terference with the training or discipline of His Majesty's forces or to prevent any attempt to temper with their loyalty (i) to empower any civil or military authority to enter and search any place which is believed to be used for a purpose prejudicial to the public safety vening rules made under the Act (k) to pres cribe the duties of public servents as to preventing any contravention of the Rules and (I) to prevent assistance being given to the enemy or the successful prosecution of the war being endangered (s. 2). The next section em powers the Local Government to direct that any person accused of any offence made punishable by the Rules or of any offence punishable with death, transportation or imprisonment for a term which may extend to seven years or of criminal conspiracy to commit or of abetting or of attempting such offence shall be tried by Commissioners Those shall be three in number They shall be appointed by the Local Government. Two of them, are to be persons who have served as Sessions Judges for three years or are persons qualified to act as Judges of a High Court, or are advocates of a Chief Court or pleaders of ten years standing (s 4) The procedure at trial is shortened by omission of any magisterial inquiry in committal proceedings but the procedure prescribed by the Code of Original Procedure for the trial of warrant tases by Magnetrates is made applicable (a. 5). The judgment delivered by the Commissioners is final and is not open to any appeal (s. 6) The provisions of the Indian Evidence Act are made applicable to the trials held under the Act with this exception that where the statement of any person has been recorded by a Magis trate and such person is dead, cannot be found or is incapable of giving evidence such state ment may be admitted in evidence in any trial before the Commissioners (s 9) The powers given by the Act are very wide indeed but they are to remain in existence temporarily only to meet the special conditions following in the wake of war

The indian Paper Currency (Temporary Amendment) Act. — Barly in the year the Government of India promulgated an Ordinance

ment to increase the investment of the Paner Currency Reserve from the maximum of representation fourteen crores fixed by the Indian Currency Act of 1910 to the maximum of rupees twenty crores This addition in the amount of Reserve was made with a view to providing for loans to the Presidency Banks should this be required for the assistance of trade in the conditions arising out of the war or alternatively to enable Government if necessary to obtain ad ditional funds for general purposes The provisions of the Ordinance are enacted into Act which is to remain in force during the con tinuance of the present war and for a period of six months thereafter

- 6 The Indian Patents and Designs (Temporary Rules) Act.—Like the foregoing war legislation this measure also is destined to have a temporary existence. It owes its origin to have a reinporary enseance it were no origin to two English statutes the Patents Designs and Trade marks (Temporary Rules) Air 1914 (4 and 5 Geo V c 27) and the Patents Designs and Trade marks Temporary Rules (Amendment) Act (4 and 5 Geo V c 73) The Act enables Government to make rules—(a) for avoiding or suspending any patent or themse granted to any enemy subject (b) for avoiding or suspend ing the registration of any design belonging to auch person (c) for avoiding or suspending any application made by him (d) for enabling the grant to be made to any other person either for the whole term of the patent or registration or for such less period (s) for extending the time within which any act or thing may be done under the Act
- 7 The Delhi Laws Act The purpose of this Act is purely local in its character. It aims at removing sixty five Revenue estates from the United Provinces of Agra and Oudh and adding them to the New Province of Delhi formed on account of the translation of the seat of the Government of Lidia to Delhi Those newly added estates are freed from the opera-tion of some Punjab Local Acts which are peculiar tion of some Punjab Local Acts which are peculiar to that Province and which did not hitherto govern them. (a 2) They are enumerated in schedules 1 and 2. At the same time certain Acts which applied to them as being parts of the United Provinces are continued to them by a 3 The act preserves to the people residing in the estates their laws and frees them from certain laws with which they had nothing to do before
- 8 The Assam Labour and Emigration (Amendment) Act.—The Assam Labour and Emigration Act (VI of 1901) was found defective in some respects. It contained no safe-guard against the practice of procuring labourers from Native States and thus afforded opportunities for evasion of the statutory control of recruit ment This defect has been sought to be remedied by a definition of the term native district and by an addition of an explanation to the definition of "emigrate

The second point on which the Act has been amended, is the repeal of a 90 and Chapter III and the addition of a new Chapter VIA. Effect is thus sought to be given to the recommends. Covernment of India promulgated an Ordinance tions of the Assam Labour India Committee cuttitied the Indian Paper Currency Amendment The system of obtaining recruitment by one Ordinance. Its object was to enable Gowen transports has been put as end to Recruitment. henceforth has to be through the Local agents. They are to be under the direction of a newly constituted Board known as the Assam Labour Roard. The Board is to consist of an Official Chairman and fifteen representatives—eight to be selected by the Indian Tea Association Cal cutta, four by the Assam Branch of the Tea Association and three by the Surms Valley Branch of the Indian Tea Association The Executive Committee of the Board is to con sist of five members one of whom is the Chair man of the Board one member each to be elec-ted by the Indian T.a Associations at Calcutta and London, and two more to be elected by the
Assam and Surma Valley Branches of the Indian
Tea Association Provision is also made for the appointment and functions of supervisors to work under the Board and for the levy of ress to furnish funds for the operations of Board and the payment of salaries of the Chair man and Supervisors

- 9 The Sea Customs (Amendment) Act Section 87 of the Sea Customs Act of 1878 provided that the rate of duty and tariff valuation applicable to imported goods warehoused under the Act were the rate and valuation in force on the date on which the application is made to clear the goods. This led in practice always to numerous applications for clearance where an increase in the rates was apprehended al though there might be no present intention of clearing the goods. This deject in law is of clearing the goods. This defect in in sought to be remedied by amending a 3" and providing that the duty should be paid auch goods at the rate and valuation in force on the date on which duty is paid
- 10 The Str Jamsetjee Jejeebboy Baro-netcy Act —The Act XX of 1860 which was passed during the life time of the first Baronet created a settlement of Government Promissory Notes of the nominal value of Rs 22 54 400 and a Mansion House called the Mazagaon Castle in trust indicated in the Act That Act has now been repealed and replaced by another Act The Board of trustees is to consist of three persons the Commissioner N D the Account persons and communiquer A D in Account ant-General of Bombay and the Collector of Bombay (s 8) The settled property is vested in the above Board (s 5) who are permitted to Invest it in any of the authorized securities (s 6) The Baronet for the time being is an powered to sell with the approval of the trusters the Maragaon Castle and to purchase a new Mansion House in a more convenient and healthy locality in Bombay (as 8 and 10) To meet the cost of the purchase of the new Man sion House the trustees are permitted to spend Ra. 2,75 000 out of the proceeds of the sale of the Mazagaon Castle (s. 11) and Es. 2,25000 from the securities (s. 0). The surplus if any of the sale proceeds of the Mazagaon Castle is to be held on the same trust as the settled pro-perty (s 14) The Baronet in possession is al loved to jointure (s. 17) to the limit of Ra. 20,000 annually (s. 18) but the Mansion House cannot be so drast with (s. 19). The property is not capable of alternation (s. 20). The trust funds can be augmented only to the limit of Ra. 50 lakhu (s. 21)

important amendments in certain Acts of the Governor-General in Council and to repeal superfluous words in other Acts

- 12. The Indian Soldier (Litigation) Act.—
  The present war is accountable for this en actment. Early in the year the Governor General of India in Council promulgated an Ordinance on the subject No 2 of 1915 As an ordinance could remain in existence for only alx months it is resuscitated by an Act of the Legislature It provides for the special protection in respect of civil and revenue litiga-tion of Indian soldiers serving under war con ditions Whenever any plaint application or appeal is presented to any Civil or Revenue Court, in which the adverse party is an Indian soldler who is serving under war conditions, that fact must be stated clearly (s 3) If in any such proceeding the Indian soldier is not represented, the Court shall give notice to the pr sembed authority (s 4) and the proceed ings are to be postponed pending service of such notice (s 5) The Court may however proceed with the case if no certificate is received within three months (s 6) But the Collector has the power to intervene in any such proceed ings suo motu(s 7) Powerls given to the Court to set saide decrees and orders passed against an indian soldier serving under war conditions (s 8) In computing the period of limitation prescribed by the Indian Limitation Act 1908 for any suit appeal or application against an Indian soldier the time during which such And the third the turning which such the turning which such the the August 1914 shall be excluded (s. 11) The trovernor-General in Council has the power to apply the provisions of this Act to other persons in the service of the Crown (8 12)
- 13 The North West Frontier Constabuting Act.—The Police Force in the North-West Frontier Provinces has been modelled on military lines It went by the name of the Borker Military Police Force and was governed by the North West Border Military Police Act. (IV of 1904) The Force has been shokished and its place taken by the Frontier Constabu-lary The main provisions of the old Act are re enacted and applied to the new Constabu-lary Since the date of the foregoing Act the old Indian Army Act on which many of its provisions were based has been repealed and a New Army Act (VIII of 1911) has been placed on the Statute Book the provisions of the New Act have been here freely drawn upon members of the Constabulary are to be under the immediate supervision of Assistant or District Constabulary Officers, who are to be under a evamentary outers, was are to be under a superior office known as the Commandant (a 5) the Officer placed at the head of the Forre (a 7) The more helmous offenors, etc. abetting or joining mutthy assaulting the superior officer desertion disobedience spreading of false alarm and displaying cowardies while on duty are punishable with transportation for life or for a term not less than seven years with imprisonment which may extend to four teen years or with fine which may extend to three months pay Some of these offences can be tried summarily by the Political Officer ac-11 The Repealing and Amending Act. be tried summarily by the Political Officer ac-This Act is desired to make formal and un companying the Force sitting with two other

Officers appointed by him is 8). The less beinges offences enumerated in < 9 are made purchashed with imprisonment for a term which may extend to one year or with fine which may extend to three monits pay section 10 exts out the minor military punishments enz reduction in rank and emoluments line to any amount not exceeding one montus pay, confinement to quarters for a term not exceeding one montus pay, confinement in the quarter guard for not more than twenty-eight days and removal from any office of distinction. The hard and responsible duries of the member of the force are set of by the general immunity from civil or criminal proceeding, by the plear that the set was done by this under the authority of such warrant or order (s. 17).

14. The Enemy Trading Act.—During the pendent of the war payment of money to hostile forcing subjects having been probabited by Proclamation this Act rails into being a public authority to whom such payments can be made. The covernor General in Councilly property (\* a). Any sum by way of dividends, interest or chase of profits payable to suy enemy subject should be paid to the custodian (s. 4). The custodian has the power to refuse payments which do not fall within the Act (s. 7) and has receipt constitutes a good discharge to the person making the payment (s. 8). He is to hold the money so received, in accordance with the directions he may receive from the Governor teneral in Council (s. 9). No suit or other proceeding can be against the custodian in respect of any thing done by him in good faith under the Act (s. 10). Government have all of the power to critical the provisions of this Act to payment, the Enemy trading Proclamation (s. 12) or to sums in the hands of public office is under enact ments relating to foreigners (s. 13).

15 The inland Steam Vessels (Amend ment) Act.—Under the provisions of a 204 of the Inland Steam vessels Act of 1884 errificates of competency and service granted to Masters Engineer etc of Inland Steam Vessels had offect throughout British Indis In 1912 the Government of Berngal point dout that a knowledge of the river Hugh was essen that a knowledge of the river Hugh was essen that for masters in charge of inland steam vessels in Bengal there was no guarantee that the holders of certificates granted elsewhere possess the necessary knowledge The section is therefore re unacted by limiting the validity of masters or serangs certificates of competency or service to the provinces in which they are granted such certificates can be valid in any other provinces also if so endors d by the authority empowered under the Act to grant certificates in such provinces. Another point on which the Act has been amended is that it extent happens in practice that a person heiding a serange certificate of competency but sub preferance of the provinces and the text of the control of a control of the certificates cannot be can obled as he is not the master of the vessed with in the measuring of the Act. The set 47, 44, 45

and 57 have therefore been new amended so as to make all persons holding certificates amenable to the provisions of the Act if they are found guilty of incompetency or misconduct. A new Chapter (VI—A) has been added to enable the Loral Government to make rules to togulate the speed at which the inland steam vessels can be stramed. Inland steam vessels can be stramed. Inland steam vessels belonging to the Government of India have now been subjected to the provisions of the Act by an amendment of 87.

The Benares (Hinda) University

Act .- The present Act is one of the most notable measures of legislation enacted by the Supremi legislative (ouncil for some time past It regularity to council for some time past It restablishes and incorporates a teaching and residential Hindu University at Benares First of all It creakes a copporation sole of the University are open to persons of all classes castes and reseds but provision shall be made to subtless that the contraction of the University are for religious instruction and examination in Hindu religiou only this instruction is compulsory in the case of Hindus Special arrangements are to be made for the religious instruction of Jain or Sikh students (s. 4) The constitution of the governing body of the University is well provided for The Governor General of Indle for the time being shall be the Lord Rector (s 5) the Lieutenant Governor for the time being of the United Provinces of Agra and Oudh shall be the Visitor who has the power to inspect the University and its colleges and to annul the proceedings of the Luversity if they are found to be not in conformity with this Act, Statutes and Regula thone is 8). The authorities and officer of the University are named to be (1) The Chancellor (3) The Yice Chancellor (4) The Pro-lice Chancellor (5) The Court (6) The tound; (7) The Senate (8) The Syndicate (4) The Faculties and their Drawier (5) The Registrar and (11) The Treasurer (5) The Sundinistrative affairs of the University the Court is the supreme governing body and has the power to review the eruing body and has the power to review the acts of the Senate (s. 9) The executive body of the Court is called the Council (s. 10) The Senate is the academic body (a 11) of which the executive body is called the Syndicate () 12) To meet the recurring charges a per manent endowment of fifty lakes of rupees is to be made and invested in authorised securities (s 14) The degrees diplomae certificates and (8 14) The degrees inplomas cremicals and other academic distinctions granted by the University are to have the same recognition at the hands of Government as those granted by the existing Indian Universities (s 10) The formation and scope of Statutes and Regu-lations of the University are provided with minute detail in se 1° and 18 The Governor General in Council has extensive power to act in cases of emergency viz the removal of any member of the teaching staff the appointment mem her of the teaching start the appointment of a critain examiner and the raising of the scale of remuneration of the staff (a. 18). The University grows out of the persent Hindu University Society which is now dissolved and all its property rights powers and privileges are to west in the Reason's Hindu University

# Imperial Legislative Council.

The first session of the Imperial (agislative Council was held at Delhi on January 12th when the Vicercy made a statement on the international and internal stration. He dwelf with particular emphasis on the circum stance of Turkey's entry late the war on the side of the Toutonio Powns, pointing out that this was the first time when the British Empire had been at war with Turkey on whose side she had stood on two historic occasions He was aware that the leading Mosiem bodies in India had done thir utmost to avert war with Turkey and that the authorities at ton stantinople had turned a deaf ear to these was absolutely no reason for Turkish inter-vention I'm Allies had more than once given solemn assurances to respect the lade pendence and integrity of Furkey and there was no menace to Islam. On the contrary the Allies had made a declaration of the Immun try of the holy places of Arabia and Meso potainla from attack while the British Government had even declared that they were propared if any such need should arise to defend them against all foreign invaders and to main tain them inviolate. From the very moment of the intervention of Turkey it was dear that it was not to be expected that amongst Indian Woslems there would not be a natural senti ment of sympathy with a great Mahomedan Power But when the character and metices of this war became fully known to and realised by the Most ma of India whatever might have been the sympathy with which their religious instincts might under other circumstances have inspired them any such sentiment was absolutely swept aside by their feeling of no swerving loyalty to the king Emperor and the British Empire whose cause in this war they recognised to be that of freedom honour and justice This had been yet one more of German's miscalculations which would bring about her run. The Vicercy thenturned to the services which India had rendered during the war She had been in a position to send a force 70 000 strong to fight for the Empire stress the seas in announced on Aptember Sth. Since he spoke those words their chergical had been more than doubled and to the five Since he spoke those words their energies theatres of the war-counting China as the dith-dudic dear advictation of the department 200,000 combatants. At the same time they had maintained their military forces on the Frontier unimpaired to meet any ener gency that might arise. The rise in the price of wheat had been a cause of anxiety therefore of what had been a cause of anxiety therefore the Government had taken the export trade under the le of the trade under the le own control. The cott in situation also caused anxiety but there had been an improvement and Government had been prepared through the issue of losses through the Presidency Banks to assist this and other disturbed trades. The Vicercy than paid a tribute to the manner in which the Prissipation and Angle-Indian had conducted their during the war and said the Government were corrected to the state of the prissipation of the during the war and said the Government. were opposed to drastic Press measures against the few that had offended unless they were forced upon them. Turning then to the pro-gramme of the session the Viceroy said that It was the deare of the Government to avoid

the discussion of all controversial questions during the continuance of the war so as to concentrate on the question the protection of the Empire from a ruthless and powerful enemy One urgent question had, however to be settled—it was to pass a Bill prolonging the period of the emergent provisions of the law now contained in certain ordinances, recently passed. He asked for the co-operation of the Council in making these ordinances of effect so long as the war lasted and for a certain period thereafter The Foreigners (amend ment) Bill, 1914 was introduced and referred to a Select Committee The Sir Sassoon David a select Committee The Sir Sasson David
Baronetcy Bill, to a tile the endowment of
the Baronetcy conferred upon Bir Sasson
lavid, was introduced. The Sir Jamsetlee
Jeeleebhoy Baronetcy Bill was introduced.
The purpose of this Bill late modify the original
Baronetcy Bill so as to employer the Baronet for the time being with the approval of the tractes to sell the family residency Mazagon taste Bombay and to purchase a more convenient house and to confer on the Tractory true more extensive powers for the invest ment of the endowment funds. The Emer gency Legislation Continuance Bill was then introduced It was any amed that sing the cutbreak of the war the Vectory had found it necessary to exercise the powers conferred on him by section 23 of the Indian Councils Act and to issue ordinances conferring the necessary powers on the Government to deal with the introducts arising out of the war Ordinauers sued under these powers had duration only for six months. The Bill would extend the duration of these ordinances for the period of the war and six months after The standing orders were then sus wards pended and the Billas introduced was passed

The Council reassembled on February .3rd when the Vierroy expressed the deep regret with which all had heard of the premature death of Mr. G. R. Goshale. Mr. Gobale was it esid known in the Council as a speaker of conspicuous ability and wonderful doquence whilst his earnest enthusiasm and saund judg in it secured for him a commanding position amongst the public men of the country. He was a loyal supporter of Pritish rule in India Judy and the secretary of the security of the season of the country. He was a loyal supporter of Pritish rule in India Judy and the Security of the season of the country of the season of the country of the season of the country of the season of the country of the season of the season of the season of the season of the season of the latest and Designs (Timporary Rules) Bill The Bill, he said, extended the powers of the Governor General in Council during the confinuence of the war to make rules under the Indian Patents and Designs Art of 1911. It was solely a war neasure for Governor the latest in the season of

the country and a warm care for the Indian soldiers at the front, the mover went on to declare— It is believed that Germany expected that India would support her in this war If Germany harboured such an abend belief it only shows how the West is often mi taken in its reading of the Indian character It is all the more remarkable that this mistake should have been made by a nation which claims to have made a special study or ancient Indian literature What is this war? Is it ladian librature what is this war? Is it not a war between the moral forces of humants and brute power? The object of the war is to establish the supremacy over all that is good and noble and virtuous in man. A few amendments to the verbiage of the reso fution were suggested by the Commander in Chief and accepted it was strongly supported. ported by all the unom ial members of the Council, carried, and accepted by the Viceroy with an undertaking to convey it to His Majesty

The Hon Raja Kushalpal Singh proposed a resolution dealing with the promotion a resolution dealing with the promotion of industries in India This motion reflected a widespread deave throughout the country and it proved the general ex pectation of an industrial development which would make India a self supporting country There was a feeling that the certain hour had arrived through the absorption of Europe is war and the closing of the Indian market to Germany and Austria who were the principal exporters of manufactured goods The resolution took the following form — "That this Council recommends that in New of the cessation of imports from hostik coun tries, the Government be pleased to invite the opinions of the Local Governments and Ad ampistrations as to the desirability of promo ting industrial enterprise by loans on the lines ting industrial enterprise by loans on an age of taken' advances. In supporting it the mover said that the only two countries which might possibly capture the Indian market were the United States and Japan The present freedom from the commercial and industrial domination of Germany and Austria-Hungary was a temporary rehef Unless Hungary was a temporary rehef Unless India filled the vold caused by their elimination from the market it would be small solace it their place was taken by some other country and as the United States or Japan. But the such as the United States or Japan. But the history of industrially progressive countries supported the view that the State night with profit, render substantial and to findus riess. The aid chefly needed by India was the provision of capital it was admitted on all hanks that capital is badly needed in India for the development of her resources and the graceal corpulation within and the general complaint was that money did not now into industrial channels in India as freely as in other countries. It was neces sary therefore that Government should as a matter both of principle and policy finance such concerns as held out the best prospects of success. The resolution was supported by of success. The resolution was supported by practically all the non official members of the

was a country of small capital and when manufactory was started it frequently happened that the bulk of the capital was used up in the initial stages leaving only a small margin to serve as working capital In his opinion the serve as working capital. In his opinion the necessary financial aid to be effective should come from Government This money should be distributed in the same way as takevi advances. The Hon Mr Dadabhoy said there was an insatent and growing demand in the country for pecuniary help to Indian indus. tries. The banks were quite inadequate for trees The banks were quite inadequate for this purpose they came back to the State and State help through the medium of takavi advances. The Hon Mr. Ghunnavi said that in India they had none of the advantages which had conduced to the industrial growth of Japan they had no expet knowledge. They required help for the encouragement of small industries such as wearing smanner state mentions. such as weaving spinning sugar manufacture manufacture of sait glass and other metallic articles all these could be fostered under indicious guidance if capital were forthcoming The Hon Mr Banerier hoped that the Govern ment would accept the resolution. They felt with all the depth of affection which they possessed that the future of India largely do pinded upon her industrial projects. We talk of political regeneration self-government We and so on but in our heart of hearts we feel that political regeneration can only come in the track of industrial growth and emanci pation. We have the history of Japan before us we have the history of Germany before us. The Hon Mr Carr brenty described what had been done for the promotion of industries in Madras. He said the difficulties experienced were the employment of experts be building of factories the erection of madrin and the provision of capital. The Madras are the contraction of the contra Government in addition to providing experts for investigation and guidance had advanced a sum of nearly two lakes of rupees for the starting of special work in connection with industries in which the economic situation appeared to justify the hope that something new might be done. Work had been started on a pencil factory in Coronada on the revival of a gises factory on oil pressing experiments on oil refining experiments and on soap making experiments the Hon Sir Ibrahim Rahim tools said that the suggestion of takavi ad vances was tuntamount to making Government start the business of lending money on the mortgage of industrial concerns with more principal than are possessed by ordinary mort gagees. Then what would happen to these gagees Then what would happen to these industries immediately the war was over? They would be confronted by the subsidised and State sided competition of foreign countries. It would take two or three years before these industrial concerns were ready to produce manufactured goods by that time the same competition which had operated against the success of Indian industries in the pest Council The Hon Ser Gangadhar Chinavis would be revived Then what would become said that his experience in the Central Provinces had satisfied him that for Indian industrial good chance of success for new industrial development some scheme of financial india was allowed to work on the principles manifestance was desirable. Failure in of fair trade The Hon. Bir Faundboy many cases was due to scarcify of liquid capital. Ourina boy said there were weighty political at a time when it was most needed. This

tion. There was a strong feeling that Govern ment should do more for Indian industrial development than it had hitherto done and that this development in a large measure de pended upon the fiscal and economic policy of the Government. Unless the new indus of the Government Unless the new indus-tries were protected they could never thrive fhere were capitalists who were ready to put their money into the development of industries if Government assered them that these indus-tries would be productive. The Member for commerce and industry replying on behalf of Government said there were two main difficulties in the way of taking advantage of the present economic conditions in order to advance Indian industries. The first was the one of capital which was particularly difficult to obtain during a war and the second was the impermanence of the war conditions out of which the present opportunity arose. When it was suggested that Government should provide the capital required it was apparently forgotten that Gov erument in time of war was faced by many presented needs for money in addition to the natural contraction of the money market The essence of takaviloans was that they rested on a certain security land This was a security on which Government could always rely The position was very different in regard to such litems as plant and industrial goodwill. He joined lean, with those who said that Indian industries were waning if they looked back five ten or fifteen years they would find that there has been a steady dev lopment. In their present financial circumstances the Gov ernment would not contemplate a policy of locking up large sums in the initiation of in dustrial enterprises They had done much to strengthen the banking position which was the lifeblood of commerce by offering to make losse to threstened trade through the Presidency Backs Whilst therefore in full sympathy with the object of to mover Government could not accept the resolution in the form in which it was proposed. By agreement with the mover the amendment was modified and accepted in the following form

That this (ound) recommends that in view of the opportunity afforded by the ces sation of imports from hostale countries tiox erament should afford such ansistance and

compensation as may be practicable in the promotion of industrial enterprise in India At the sitting on March the 2nd the tom mander in-thief answering a question by the Hon. Raja Jai Chand gave the following information and the mander in the second seco mation as to the scale of pension allotted to Indians in the Army

in Indian officer or soldler who is totally disabled receives special pension. The amount uniquen receives special pension. The amount varies according to the rank of the publication Government does not provide an additional pension for families during the lifetime of the pensioner himself

The maximum and minimum disablement Pensions are

For an Indian Officer Maximum Ba 140 per For a Sepoy

The Finance Member introduced the Budget This will be found fully discussed in the Section This will be found ruly descissed in the Section Indian Finance (see auto). The main features are therefore only very briefly indicated here in the Budget estimate for 1014-16 provided for a defait of £1 9 millions owing to the heavy expediture by Provincial Governments from their accumulated balances. The actual defail of the section was £4 9 millions arising in the main from the convexition of an estimated Imperial control of £1 2 millions tries as Trace-tal feature. surplus of £1 2 millions into an Imperial deflets of 12 7 millions The Budget for 1915-16 estimated for a revenue of 280 3 millions and an expenditure of £34 1 millions and a deficit of £3 8 millions. It was not proposed to meet this by any fairease in taxation but out of loans The Government proposed to continue the loan of £7 millions from the Gold Standard Reserve The Secretary of State intended to remy the 17 millions of India Bills which he renow and 2.7 minious of those tens which he but made during the current vest. They proposed to raise £3 millions (4) crores) in India b) borrowings to England either director through borrowings to England either director through the agency of Companies working State Railway
him The Law Member introduced the Delhi
Laws Bill, explaining that a strip of territory on the tastern bank of the Jumns had been transferred from the United Provinces to the Province of Delhi for reasons of health expansion and other interests attaching to the surroundings of the new capital It has always been considerably desirable and convenient to yest the control of the River Channel in single authority. The Bill declared the enact-nears by which the added territory would be governed The Home Member presented the Foreigners (amendment) Bill as amended by the Schot Committee

The council reassembled on March 8th when the Hon Mr Dadabhoy moved a resolution to reduce the allotment for railways in the coming year by fifty takks of rupees and to dryot the amount so freed to the Provincial Governments for the development of education and canitation. He said there was almost un limited scope for the employment of funds both public and private for the promotion of education and sanitation. The provincial expenditure under these two heads together with middled had been less by £1 million in the current year as against the Budget provision it was true that the Budget grant to the Province showed a slight advance upon the revised But the un extimate for the current year fortunate circumstance was that it was insufficient for any reasonably large progress and that the large number of schemes prepared within the vor would be hung up indefinitely Last year the capital expenditure on railways was over £12 millions Now after the two was of r 212 minutes. After the street of the order to old in a respite at least in the matter of the construction of new lines. The Hon Sir Ganga Uhar Chitnavis said there was still much rooms. Maximum Ba 140 per mensem for sanitary imageveeness and any increased grant would be night thankinky reserved and increased sanitary in the first thankinky reserved and saving spent. The Menser for commence and industry, intervening said that from the mensem sanitary in the sanitary in the sanitary in the said that from the mensem sanitary in the sanitary in the sanitary in the said that from the mensem said that from the sanitary in the said that from the sanitary in the said that from the sanitary in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said in the said that from the said that from the said that from the said that from the said that from the said in the said that from the said the said the said the said the said the said the said that from the said that said the said that from the said that from the said that from the said the said that said the said the said the said the said the said the said the said the said the said the said the said the

the (contraction of the small new rallways employment it was very undesirable that anything should be done to lead to greater un employment than must mevitably be the result of the war The Hon Mr Ghuznavi showed that there was a profit from the ranways and the irrigation works of some six milions sterling There were other ways in which money for education and sanitation could be obtained than by curtailing the railway budget. The Hon Mr. Marshall Reid pointed out that the Budget reduced the railway grant from £12 milhons to 78 millions. His own opinion was that to go shead properly and to maintain the railways something like 215 millions string or £75 millions was required. Those who had advocated the claims of education in the circumstances should be well pleased that they this year of war as they had over had before The Finance Member showed that the Ranks programme had been curtailed by one third He did not in the least undervalue the but its of education and sanitation but the people were squally benefited by an expan ion of rail were equally beginned by an expan ion of rail way facilities which expanded trade mitgated the effects of famine or searcity and added to the personal convenience of Indian travels re-The financial effect of Mr Dadabhoy a proposa would be not merely to add to their imperial account of the proposal to the contract there are half revenue deficit, but to diminish their cash bal ances, and to mercase pro tanto the amount of ment year a borrowings on account of the suprodoctive debt, the productive bor wing being decreased in like proportion. From the financial point of view this was a most unsound proposal. Taking all the heads together the diminished outlay under education and sanitation enes outsy under education and sanitation was triffing in comparison with the reduced provision made for railways The Hon Mr Abbots opposed any reduction in the construction of railways and the resolution was rejected the Hon. Mr Dadabley proposed a resolution that the court of the Judicial commissioner

of the Central Provinces be replaced by a Chief Court, consuting of five Judges or more He said that the Judgesial Commissioner's Court was unspited to the present conditions i the was unsuffied to the presum constitute to control Provinces and Berar Secially, economically and politically the development of the Provinces had been very great indeed Notwithstanding the ravages of plague and famine the population had grown from 10,879 184 in 1871 to 16 083,310 in 1811 or an 10,879 184 in 1871 to 16 083,310 in 1911 or an insprovement of nearly 50 per cent 8uch a progressive population demanded better and the Member progressive population demanded better and the Member and the Province and the existing the Hon Fandit Madan Mohan Mainviya more up to data arrangements for the salming in the West action of the Province and the existing the moved a resolution recommending that a sum of twelve lakins of rupees be movided in the salmy strength people required that a Chief Court issued be established at Negyer Bir Gange the Court in the Chief Court of the extension of the Province while a view of the salment because of the Province while a view of the salment of the Chief Court of the Province while a view of suggested that his twelve takes should be

possibly spaced out by considerable periods to cope expeditionally with the increased work during which all the work proviously done had on account of the development of the Province been lying idle and all the capital employed They had also to count with the new sense of had been lying idle. He submitted that it dignit; which the Province now had The would be inexpedient to fall to proceed with Home Member set doubtful whether the meralteration in the name and status of the Court provided for in the Budget. They had to look was going to after matrially the nature of the forward to a great revival of trade when the justice administered by that tour. However was was over There was also the question of the hoped the mover of the resolution would be employment it was very undesirable that satisfied if the attention of the local administra tion was drawn to his resolution and an op-portunity given to the local administration to consult with their officers with the Judges of the Judicial Commission is Court and with non-official members. When they had con non-official members When they had con-sidered that question if the chance was recom-mended by the local Administration and it was considered by the Government of India, that a case had been made out no doubt news sary action would be taken. The resolution was withdrawn

> The (ouncil, reassembling on March 9th The Council, re-assembling on March 9th commerced the second stage of the discussion of the Budget when it is considered head by head The Revenue Member introduced the items concerning his department when the Hon Pandit Madan Mehan Malattia moved a resolution that the budget allotment for productive irrigation works be increased by filtern laking of rupers. His argument was that the Irrigation Commission recommend of that the whole amount of the Ramme insurance Grant should be devoted to arm gatton minus such sun as may be needed for the actual relact of famine when it should occur but they found that even that figure had not but maintained In 1912 14 the amount spect was Re 92, 33 927 whilst in the budget for last year Re 1 80 00 000 was provided and Rs 174 % (MO apent and in the budget for the coming year only Rs 1 % 00 000 were provided. In the budget before them ranways provided in the budget before them relievely were expected to yield 32 per cent and ringation o of per cent. It seemed then that irrigation was ever so much more profitable than railways as well as being more beneficial in many respects. The Revenue Minder whilst welcoming the resolution said that they followed the budget the bedget as well as possible or the budget. for the full amount which they reckoned that they could spend There were very great diffi they could spend Than were very grat din cultes in priparing large irrigation schemes. Still they hoped to be able to spend more ferely in future when the works now under consideration were put in hand and experiments were being undertaken which would had to a great recommy of water. He had done all in his power to spend the largest possible sum on protective prigation works The motion was rejected

The Education Secretary and the Member

provided from other sources and on the exist ing bash the Finance Member could not expand his revenue even by the comparatively modest sum of twelve lakes This was not the moment in the midst of the economic disturbance set up by the war to ask the Government to launch a new policy The resolution was defeated on a division by 36 votes to 14

The Hon Pandit Madan Mohan Malaviya next moved that the budget allotment for the working expenses of the railways should be reduced by ten lakes of rupres in so doing he drew attention to the rapid me in the working expenses of the Indian railways smee the establishment of the Railway Board Before the Board came into existence that of working expenses to gross receipts average from 48 to 48 By 1909 it had gone up to 62 from 40 to 48 By 1809 it had gone up to 02 per cent and by 1910 to 50 3 per cent. This rapid rase in the working expulses necessarily reduced the profits on the railway system. reduced the profits on the rainway system which were only 53 per cent in the present year and were estimated at 32 per cent in the coming year. The railways had cost immense sums and the country was getting very small returns 1h. Member for Commerce pointed to the difficulty of cutting down. ordinary expenditure merch because traffic fulls off. A great proportion of the working expenses must be fixed expenses such as wages of the staff and working costs could not be of the staff and working costs could not be largely reduced merely because a few trains had been taken off. The railways had done very well to effect the substantial saving that had been secured. With regard to special expenditure this had been debated in an earlier resolution. When members de precated the expenditure necessary to bring the railways up to the capacity of the traiffic demands upon them they norgot the acut congestion on the railways during the past two or threes and the compliants which arous on all years and the complaints which arose on all hands in commercial circles. It was unden able that injury had thus been done to trade latterly the Government had pursued a polley of steady and continuous development he had not the slightest doubt that they were doing right and were acting in the best economic interests of India It was one of the matters on which he looked back with the greatest satisfaction now that his five years in India were drawing to a close that he would leave the rallways in a fair way to have drawn close to the demands which may reasonably be expected to be made upon them. The resolution was rejected and a consequential resolu tion, proposing that the capital expenditure on railways should be reduced by twenty five withdrawn. The Home Member and the Finance Member introduced their respective

open dequate supervision of recruitment If to a law instinct with a new parts of labour for the test garden in Assim It and new life it was all due to English education provided for the complete stollish of struct | At the same time the Vernaculars of India

ment by contractors a system which had been found in the past to be least susceptible of Proper control and to have been the most open to abuse Recruitment will be conopen to abuse Recruiement win it con-ducted almost entirely through garden sextan-working under local agents that is to say by men employed on the gardens who came by the employed on the gardens who came out for recruiting purposes to the recruiting districts and are there controlled by local agents These local agents will be super vised by a board and its staff. The Commerce Member introduced the Sea Customs (Amend ment) Bill dealing with a single point in Indian Customs law The effect of this amendment will be to make the duty chargeable on goods or warehouse the duty interest the time of their actual removal. The House Member moved that the report on the Foreigners (Amendment) Bill be considered and the Bill as agreed to was passed The Hon Mr Rayann gar provoked a most interesting discussion by proposing that steps be taken to make the indian vernaculars the media of instruc-tion and the study of English as a second tion and the story or language as a secondar language compulsory for Indian pupils in all secondary schools. This raised again what is commonly known in India as the bettle of the vernaculars and resulted in a wide diversity of opinion The mover maintained that a little examination would reveal the superior advantages of importing instruction through the vernaculars if any real know ledge was sought to be communicated to an unmaturedated boy the medium of the mother tonguo must have undoubted advantages If attention was diverted to the difficulties of a foreign tongue in addition the immature mind naturally fuled to assimilate either the language or the knowledge it was sought to convey This led to cramming and the mecha-nical a petition of helf understood sentences In another direction the present method worked a hardship No serious attempt in the directo serious science in the direction of apreading female education could be carried out without providing a vernacular basis for secondary education. The Honbasis for secondary education The Hon Mr Dadabhoy opposed the motion on the ground that it was calculated to be prejudicial to the best interests of the country Through out the long controvers; between Orientalists and Occ dentalys - over the medium of education the governing principle of the advocates of English was the creation in India of a class of men tho roughly grounded in European scence arts and philosophy who would serve as the communi-cating medium of Western culture to the genera-population. The mover thought that English education had failed to stimulate thought and original research. If he had reviewed the history of the past fifty years he would have found sufficient material to modify his views. The Hon ur Shunavi found himself. in complete disagreement with the Hon. Mr. when the Council ressembled on March 17th the Initiand Steam Vessels (Amendment) is speaking for Bengal that any proposal involved for leave to introduce a Bill further to antend the Assam Labour and Emil and even a countrymen with misgiving and even the countryment of the area of Englind and even the countryment of the area of Englind that the Object of this Bill was to secure a closer and to the noble language and therature of England that the Object of this Bill was to secure a closer and to the noble language and therature of England that the Object of this Bill was to secure a closer and the country of recruitment of the area of the same and the country of the country

had made marvellous progress The great bountles Java secured a strong entry into making of the Rengalee isogrape were all the Indian market and three-fourths of the scorped to western culture. He proposed a sugar now imported came from that bland modification of the resolution but even this was proposed by the Hon Baja Sir Muham mad Ali Sinhammad Khan The Hon Mr Das and that it was no use trying to supplement the deflocts of the mother's language by a gramo prome and to call it the mother tongue. The Hon. Sir Familibov Currembhoy representing the Province of Bombay with is remarkable for its great attachment to Luglish education exposed the resolution. The mover's schume was mworkable India was a land of nume reas vermeralars and it was frequently the in the same schools and in the same chases If effect was to be given to the movers dea-either the teaching staff would have to be multiplied or the schools disintegrated. The Hon, Pandit Madan Molan Malayiya suggested that an inquiry should be made to decide how far the suggestion was a feasible one. The method of education for Indian boys as placed nethod of education for matan boys as piaced before the Council in the resolution was not only retrograde but something wors. The mover wanted them to adhere to a method which had proved a total failure in the past The Hou Sir Ibrahim Rabimtoobs said one of the greatest boons which the British Government had conferred upon the country was to provide it with a common language. They should not lose sight of the fundamental tact that their common language must be English, and that anything which militated assists the farihtles for the study of English country of to find the sightest support from any quarter. The Education Vember said that no proposal to dethrone Western culture or to restrict English education would commend Heelf either to the Government or to the Council It was the accepted policy that verniculars should be the medium of mistruction for boys up to thirteen years of age and that vernacular should be a compulsory subject after that age during the whole of the school course. Vernacular was already the basis of instruction in secondary English schools until the three or four higher classes were reached. The only question was should it be adopted as a medium of instruction in those higher classes or in some of them. In considering this question they should remember that only about one tenth of those who entered secondary schools entered the University It was a subject on which different views might very well be taken in different provinces and even in different parts of a province with reference to local conditions.
But in view of the opposition which the resolu tion had excited he thought it better to say no reference to the local governments would be made until after the war The re solution was withdrawn

Another well worn subject was introduced when the Hon Rai Bahadur Sita Nath Bay introduced a resolution urging that encourage must should be given to the development. of the radian sugar industry He pointed to the remarkable fluctuation in the Indian

Simultaneously lastead of keeping space with the requirements of the ever-increasing popu lation there was a considerable shrinkage in the acrease under cultivation. The reasons for this were set out m official desputches were that sugar cane in India was grown in Small patches scattered over wide areas six ondly it was crushed on a small scale and treatest by primitive and anscendific methods which caused great waste. On account of these dietes industrial successfully competent with foreign sugar which was produced by well equipped factories intuited in a tract well equipped factories satusted in a tract of suitable land sufficient to the production of all the requisite case and so (losely connected by trams and other means of communication with the futories that the cane could be crush b for chimical decomposition act in If India was to complete with the foreign im-If India was to compute with the forigin in ports the Indian Government must adopt the same action as the Dutch Government is become a live as the Dutch Government in Formosa. In view of the financial situation his world not go further than propose that an attempt should be made to promote the starting of one sugar factory on the lines of the centralised sugar tract avatem under Go remment guiddler and with Government help in each of the two Provinces of Bengal and the United Proxinces which were still the two largest sugar producing tracts in India and that these factories in equipped with all the necessary appliances and established in the miles of a large tract of equipped lands the mea of which should not be less than 2 000 bushes. The Revenue veritary protested that the mover had taken an unduly gloomy bew of the situation. There was nothing in the figures of acreage and turnout to support the view that the industry was in danger of atmetion and if they compared the figures of the past five years with those of the preecoding five years it would be found that whilst there had been no falling off in seriage there had been a marked increase in outturn. The essential teature of the Japanese system in Formesa was that the farmers in the sugar trets were bound to sell their case to the mills and they could be punished either for making the major themselves or for selling the cane to anyon class. He thought it was that that any 63sk in of growing cane under official pressure was unsuited to the people of India The ruson why Java sugar could compete successfully with Indian sugar was not because it was state aided but because apart from a highly efficient system of manu-facture the outcurn was very much higher than in ladia. In Java the average yield was over 40 tons to the acre and in India the estimates placed it at between 12 and 20 tons Over and above this the Java come contained a higher percentage of sugar than the Indian cane Government were doing a great deal to promote the cultivation of sugar In Assem they had put down an experimental plantation In the United Provinces they had appointed a Sugar Engineer in Madras they had a case breeding station It was early to speak of the results but there was every reason to to the remarkable muonamen in the massimal in the United Provinces they had a sugar trade. There was first the massified a Sugar Engineer in Hadras they had a said bounty-fiel Austrian and German beet came breeding station it was early to speak sugar After the imposition of the countervall of the results but there was kvery reason to ing darty and the later disappearance of the hope that those who were working on the

problem would be successful. The Commercial Member pointed out that whilst the imports of sugar were increasing they still represented only a small portion of the total Indian consumption. The production of cane sugar in India (consumed for the most part in the form of gur, is an uncertain quantity.) het it probably exceeds 2,000 000 tons and there was also close on half a million tons of pain tree sugar making over 8 million tons in all As against this our imports amounted in the previous Year to only 800 000 tons

One great obstacle to the realisation of the ntral factors in lodge readed in a feature common to all systems of land tenur in this country It was that period liberty was left to the tenant or occupant as regards the a loction or crops It would be a most screens and dingerous step to take away that liberty. The Resolution was rejected

The Council reassembled on March 19 when the Victroy announced that the bearctary of btate had sent the following reply to the message of loyalty manimously adopted at the message of the Council on February 24

Hease inform council that it has given me much pleasure to lay loy il resolution before His Imperial Majesty the king who has read it with great satisfution. In Victory then n win grat satisfaction. In Vectory then spoke of the Bill wheth was to be on identified that day the Defence of India (Crimnal Law Amendment) Bill. He did not disquire that it pricented opening for controversy and he would have been pleased to think that (overnment sould have done). Covernment would have done without it but they filt that a precautionary measure of this natur had become a cowary in order to ensure public peace and tranquility if was a war measure to list during the period of the with all for six months alternated that on instruct certain important clauss did not apply intomitically to the whole of India but only to those districts or proving a which upon the identi of local trovernments might be notified It rested with the more of India to decide how fur it might be necessary to put those clauses into force the fact that such a bill had become it is such in bill had become it is such in bill as a precentionary meisure should not be retained. as in any way a slur on the people since it followed in general outline the Define of the Realm Act passed in both House of Parliament and now in force in the United Kingdom but in so far as final by court martial was replaced by trial by Special Commissioners it was of a kas drastic natur

The Home Member in introducing the Bill sketched the present condition of the country This is the stage at which we are now disturbers of the general tranquality in a few parts of the country have taken advantage of the opportunities which the state of war has created to break the peace. It is no news to the council that there has existed for some time past on the Pacific Coast or America and in the ler Rest a party of anarchists and rivolu-tionaries who have been engaged in scattering revolutionary seed first among Indians in those or popular icting and accordily within India itself by private communications, by despatch of emission of anerchical saries, and by the discomination of anerchical saries, and by the discomination of anerchical tribunal of three Commissioners for the treat may be conveniently described as the Ghadar of acts which constituted offences under the

party, saw m'the great European War their best opportunity for attempting to translate their decisions into action. Large numbers of deluded mu intonicated with this posion have been returning to India during the last few months and though the Government of the Punjab have been able under a War Ordmance to put under restraint a number of the leaders of this movement among the returning emigrants and many others of them who appeared to be dangerous yet the great majority about whom nothing was known were allowed to return to their homes as the Government had no desire to be strict with possibly harmless peopl. But some or these together with the sympathisers already in the country have been committing or the mying to commit sets of violence and it is therefore out the greatest. importance that this much if should be most promptly suppressed

Closely akm to the movement is the anarchist movement in Bengal That we have had with us for a long time sometimes it has been temporarily quiescent and some times it has recrudesced and at the present seven recrudescence and the crimes committed hav become mercasingly daring. These two movements in the Punjab and Bengal are more clowly connected than might be supposed in y may attract different kinds of followers and the y may pursue slightly different methods but their ultimate aims are the same and the security of loyal India requires that they should be suppressed

thirdly we come to a class of dworder which has characterized recent disturbances in which has an agrant pay of the West ru Punjab. This is of a different kind and has no definite political object when it starts—it is sumpli hawk-sames partly induced by comming marest. Min break out against the restraints of the Law to plunder their weaker neighbours and if this lawlessness is unchecked. it soon issumes the aspect of rebellion against all constituted authority or it may take on the complexion of racial or religious rioting In some of the Western Punjab districts indeed it is rapidly becoming a movement among lawkes Valous lans und r the stress or pre text of high price to loot and plunder their Hudu neighbours to wreek the shops and nition in genous to wreak the steple and books Violent mobe of this kind rapidly well in number, any success draws in fresh aftern niv or produces inniators and the danger may become a very serious one if it is not effectively dealt with ut the very start

At a time of a war ble the present one which has extended from Europe into Asia then must always be wild rumours flying about and potential disturbers of the peace may excite the people at large more easily than to ordinary times calling to their aid economic unright or religious isnations. It is therefore particularly incumbent on the Government to take all presentions assume breakers of the public tranquillity or inschevous exertenent of popular feeling

Hall as wall as for other offences known to the can be went as no other oriences known to tare existing his which were punishable with death transportation, or imprisonment for seven years, including complicacy to commit such offences, or attempt or abstract of such offences. In England all actions offences against the Regulations were triable only by courts martial in India they would be tried before Commissioners of whom two at least would be persons who were Judicial officers of experione The measure was generally supported by the non-official members of the Council. The Hon. Lieut.-Col Raja Jai Chand fully realising the necessity of the Bill, supported it with all his heart. The Hon. Sir Gangedhar Chit navis said that drastar though the proposed legislation was he must support it Exceptional circumstances justified extraordinary measures. The Hon. Sir Fazulbhoy Curriubhoy said that the Bill had his support for the sole reason that he was honestly convinced that at a moment of grave mational crisis like the present one, pointeal once The measure was generally supported by national crisis like the present one, political rights must give wav. The Hon Mr. Bauerjee said he was not convinced as regards several of the provisions in the Bill because it traversed ground beyond military and naval considerations and raised issues of a highly controversial conracter. The Hon Sir Ibrahim Rahimtools ciraracter The Hon Sir Ibrahim Rahimtools felt that while whole-heartedly in favour of say legislative measure which might be con addered necessary by Government to meet existing circumstances the non-official mem bers felt that the provisions of the Bill needed some alteration and amendment. The Hon Pandit Madan Mohan Malaviya supported the principle of the Ball but urged that it should be referred to a Select Committee and not passed in its present form The rules of busi ness were suspended to allow the Bill being ness were suspended to allow the Bill bellic taken into consideration it was considered clause by clause certain amendments were made and the Bill was passed. The Home Member said it was a source of satt faction to the Government to find how hearty had been the support accorded by the Council to this measure. He gave an assurance that the action taken under it would not be more stringent than the necessities of the case war

At the meeting on March 22 the Finance Mem ber presented the revised financial statement He said the effect of the latest corrections was to increase the Imperial deficit by £44,000 and the Provincial deficit by £38,000 As regards the Budget of next year the effect was to raise the Imperial deficit by ±187 000 and the Provincial deficit by £15,000

The Indian Paper Currency (Tempo rary) Amendment Bill was passed The Hon Sir Harcourt Butler moved for leave to introduce the Benares Hinds University Bill. He said that in a series of compromises the Government and the promoters of the Government and the promotors of the University had arrived at concinnions which be believed took the Bill out of the domain of controversy In giving a brief descrip-tion of the organization of the University he mid >-

organisation and it has been necessary to define and adjust functions with some care. The University is an All-India University It is incorporated for the ceeding of all knowledge, but will commence with five faculties. Arts Science Law Oriental Studies and Theology I know that many of the promoters desire to add a seculty of Technology This desire has my full sympathy and I trust that adequate funds will soon be forthcoming The University will be open to students from all parts of India on conditions which I shall specify here-uter The Governor General is Lord Rector of and the Lieutenaut-Governor of the United Provinces of Agra and Oudh is the Visitor of the University Among those whom the University will delight to honour are Patrons Vice Patrons and Rectors The governing body is a numerous and very representative fourt with an executive body in a Council of not more than 30 Members of whom five will be numbers of the Senate. The acade mic body is the Senute consisting of not less than 50 members with an executive body in the Syndicate 3 he Senate will have entire charge of the organisation or instruction in the University and constituent colleges the curriculum and the examination and discipline of students and the conferment of ordinary and honorary degrate Except in matters near tool to it the Senate is under the control of the Court working through the Council The Senate will be constituted as follows

I Ex-Officio—(a) The Chancellor the Pro (bancellor the Vice Chancellor for the time bing (b) the University Professors (c) The Principals or heads of constituent colleges of the University

II Elected—(a) Five members to be sketed by the court (b) hive members to be elected by the rightered graduates of the University from such date as the Court may fix (c) Five representatives of Handu religion and Sanskrit learning to be elected by the Senate (d) Should the Vice-Chancellor declare that there is a deficiency in the number of members required in any faculty or faculties then five or less persons elected by the Senate cultient in the subject or subjects of that faculty or those faculties

III Nominated—and five members to be nominated by the Visitor. The Syndicate will combit of the Vice Chancellor. Pro-Vice Chancellor and fifteen members of whom not less than ten shall be University professors. or principals or professors of constituent colleges. The object simed at is to secure that purelys academic mast m should be decided by a body mainly expert while the government and supervision of the University rest with the tourt and the Council. It is necessary to represent the Benate on the latter in order that the academic view may always be before it The Court will elect its own Chancellor and Pro-Chancellor Vice-Chancellor and Pro-Vice Chancellor I the first instance these officers will be scheduled The Vice-Chancellor omeen will be ex-officio Chairman of the Council, the Emate and the Syndicate. He will be the Chief Engelies officer of the University "I will now try to give a brief second of Chief Europetive officer of the University fine organisation of the new University Ten The University will through the Council and the well see that it is a somewhat complicated Board of Appointments appoint its own professors and staff and have entire control over thom. Stability is given to the constitution by requiring the sanction of external authority to changes in the statutes and the regulations ihis is the outline of the constitution of the Iniversity. The Government blinds itself to accept the degrees etc., of this University as equivalent to the degrees etc of existing Universities. This in itself is no mean concression.

I have seen this constitution described as illiberal and I have rubbed my cycs in a mazement. It is far more liberal than the constitution of existing universities. No Government to an allow universities. No Government can allow universities to grow up without control in most European countries the universities for at least the majority of them are cuttledy State universities. In the course of these discussions two polities emerged One was a policy of trust. The other a policy of distrust. The other a policy of distrust. The other applied of distrust of the Government might well have asid to the Society—You are starting a new kind of University without any experience of it in India We must leaven the lump with officials who have the requisite experience. We must guide won from within at any rate until you provour worth and the value of your degrees. That would not have been an unreasonable attitude. But we preferred to trust the Society to leave them large surformers and to reserve to Government only the necessary powers of intervention if things go wrong

Some of the promoters he added desired to kep the recognition of schools in the hands of the University and to conduct their own instriculation (xamination This wish was opposed to all the best modern by was on this subject Meanwhile the position would be this —The Bensies Hindy University will accept for admission to its courses all candidates from schools at present recognised by an existing university or by a Local Government or by a Durbar who have pessed the matri culation examination of such university or obtained a recognised school leaving certificate The Benares Hindu University will also be able to impose any additional test on such candi dates that it may think desirable. The Buners Hindu University will hold its own matri culation examination at Behaves for all caudi-dates for the raculties of Oriental Studies and Theology and for private candidates (on usual conditions) in other faculties Finally in order to meet the strong desire of some of the pro-moters that certain schools should prepare exclusively for the Benauca Hindu University it has been decided to allow such a course provided that such achools are recognised by the Local Government of the province or by arrangements which will have to be decided hereafter by the Durbar of the State in which they are situated and provided also that such schools are not allowed to send up candidates for matriculation at any other university Only in this way can complication of school curricula and confusion in the examination system be prevented. The Secretary of State allows this large concession serverary of state shows the large concerning involving some breach of principle in deficence to the sentiment of the promoters it will come under reconsideration if at any time the school leaving certificate generally outs the matriculation examination of other uni

The Bill received a cordul recognition from nearly all the non-official members attrough the Hon Mr Setalvad pointed out the danger of sectacian universities as contrary to the unifying ideas that the Universities of Indiahad exercised for many years. Leave to in troduce the Bill was granted

The Indian Patents and Designs (Funporary Rules) Bill was passed the Delki Laws Bill was also passed

The Ron Pandit Madan Mohan Malayiya then moved the following resolution "That this Council recommends that the Governor General in council may be pleased to pro hibit all export of wheat from India until the price of that commodity comes down to 9 seers per rupce and whenever it rises above that rate or to take such other steps as he may be advised to bring the price of wheat down to a reasonable level and to maintain it at such level." He said the Coun il was no doubt aware that there had been an abnormal rise in the price of wheat and of other cereals. There had consequently been a great deal of suffering among the great bulk of the people How great the rise has been was wident from the index numbers given at page 34 of Wr Datta a report on the claborate and painstaking inquiry made by him into the rise of prices in India They found that taking the average of the They foliate clear coming the average of the prices of wheat during the quinquennium 1890 44 as 100 in 1890 it stood at 94 and in 1912 at 1141 to that in the course of 22 years the price of wheat had rison by nearly 42.5 per cent During the last two years also the price of wheat had been abnormally high But nover dad it rise so high as during the last few mouths. In the great famine of 1897 the price of wheat was indicated by the number 14.) in that of 1900 by 134 so that the price was as high in 1912 as it was in the farning year 1900 Since the war broke out the price of wheat had gone up much higher Wheat had wheat had sold at the rate of d seers the rupes, a rate which was hever known to the people of this country before. It was necessary that Government should take immediate and effective measures to prevent wheat from going out of the country except when it could be snared without pinching the people As an export duty would not serv that purpose the only measure which struck him as fessible was to prohibit all exports until prices came down to 9 seems a rupiv

The commercial Member intervened carty in the debate in order to present the point of view of Government He said.—The question of the high prices of wheat which he subject matter of this resolution is one of the most momentous economic problems with which Government have had to deal during the currency of the war. The situation which has recently existed in India is unparalleled probably in the economic history of the country since the early days of February there has been overly reason to anticipate, unless some unforcessen disaster should occur one of the largest wheat crops on record Yet up to the date of Government's recent amouncement prices have not fallen but rather have continued to rise. It is not surprising in these cheunstances that Indian consumers should feel the continue tetween the high layed of prices.

and the indications of a bounteous harvest about them, to be bewildering and even sinister and that wild reports should have been divided of the whole crop having been bought up and other dangerous and baseless rumours of the kind. They do not understand, and they could hardly be expected to understand, and they could hardly be expected to understand, and they could have been the communications which have at led so large's to India's wealth by bringing, it is produce into the markets of the world appear for also to heavy demands when the world's produce falls short of its requirements. There had therefore been not only very real economic distress but great discounterly and disturbance of men is naded owing to this continuance of the high price of wheat.

"The course which Government had decided to take was if he might say so bolder and more comprehensive than the remedies which more comprehensive than the remedies which he had discussed so far They proposed no less a matter than taking over the whole control of the export trade. Their communique forcehadowed this in that it state that after the 1st of April no privat export of wheat would be allowed. What they proposed was that while the try export should only be bought on behalf of Government and only shipped on behalf of Governm at They should shipped on beauti of covering it is a first second the report of wheat everyth on behalf of the trown from the lat of April to the 31st March next year. They had decided to extend by another three mouths the period of prohibition originally announced in thir communique. It was their desire as far as possible to avoid interference with the ordinary possible to avoid interference with the ordinary channels of trade and they proposed therefore to employ as their agents in this business firm who normally conducted the export trade of wheat in India They proposed to appoint a special officer who would be known as the Wheat Commissioner with a sufficient straff to supervise operations in India and had a lexical zo supervise operations in moia and not a sector of this purpose. Mr Gubbay a viry able official in the Customs service who had had special experience of commercial questions. The firms employed would buy at prices fixed by them and up to quantities fixed by the mand up to quantities fixed by the m. The wheat would be shipped in the main to Loadon. and would be sold there through ordinary commercial agencies on behalf of Government The firms acting as their agents would be re munerated in the ordinary manner by a com muserated in the ordinary manner by a com-mission, and the profits of the transactions would secret to dovernment. As he had already indicated these profits might be large and It had seemed to them right that th y should be seemed by the State rather than that they should go to the enrichment of one particular class of the community but they regarded these profits as in a different category to their ordinary revenue and they hoped that it might be possible to make some arrangements by which such profits as might socrue would be ar marked for special purposes. The essence of the scheme was that Government would have the power of fixing the prices at which purchases were to take place in India for export purchases were to take pance in India for export or rather above which they were not to take place. This with the additional safegnard that flowerment would also prescribe the maximum quantities to be bought should secure that there could be no possibility of purchase for export forcing up prices. If the mover

would amend his resolution so as to embrace this policy Government would accept it "

An interesting debate followed. The HonStr Ibrahlin Rahimtoola said the sympathy of the people ould not but be with the cultivators who would be deprived of the substantial profit which would secrue from highprices. He proferred a sliking export dutyif tooy runent did mudritake the management of the wheat export he suggested that it should be done through the Supply and Transport department. The Hon Sir Langadhar Chitnay is said that the action taken by covernment was rescontially desirable on political grounds. The Hon Mr Dadabhoy maintained that the cultivator would not be prejudeed to any material extent. The Hon Sir Familiano Currimbhoy argued that economic theories apart the listures caused by the shoories apart the listures caused by the shoories apart the listures caused by the shoories apart the listures caused by the shoories apart the listure stated in the trade the best and it was reasonable that existing channels of the export trade should carry on the agency of the future export. The resolution as amounded was peared.

At the meeting of March 24 the Bon Sir Ibrahim Rahimdools moved a resolution stating that it was desirable that State Railways in futur should be managed by the Government bestead of he Managing companies. The advantages which he expected to result from such a system were as follows.

- (1) The paying to the State of the share of profits now paid to the Managing Companies
- (2) The d velopment of trade and commerce on natural lines mate ad of the present ar tificial diversion by means of block rates.
- (4) The growth and development or industries especially in the interests of this country
- (4) The promotion of inter provincial trade (b) The cutralisation of control in a single state Department located in India and amenable to Indian public opinion instead of in Boards of Directors in London

The Hom Mr Marshall Beid opposed the resolution on the ground that it n'vised on very important principle, namely decentrall sation Secondly because it added a great deal of responsibility to a department which was already over burdened with work. Thirdly because it aimed at reducing the power and the initiative of the managers who were primarily responsible for controlling railways fine Hon Mr Abbott also opposed the resolution because it would kill compatitions. The Hom Mr Setatual took the same line on the ground that no State department would have the same initiative as a public company, The Hon Mr Moderath said that subject to improvements in detail the present system was the best

The Commercial Member declined to discuss in detail the respective ments of Government or private management of railways. He said however that Government had already, with the sanction of the Secretary of State instituted an inquiry into this matter especially in regard to the vital question of the comparative economy of the two methods of working. He was glad therefore to be able to accept the resolution He was glad but in doing so he must make it absolutely clear that they were only considering the ques tion of the relative efficiency of the two systems

of working The resolution was adopted
The session of the 25th March was given
up to a discussion on the Eudget This dis cussion is a survival from the pre reiorin days of the towned when specific resolutions were not moved it is now an anadronism and ranges over such a variety of topics that a ranges over such i variety of topics that a summary is iniposable. The general ton-of the discussion was on of approval of the Budget and particularly of the methods which had been imployed to prevent the neces its of increasing tax ation

At the close of this desiresion the Viceroy summed up the work of the session Pevnes mg the military situation he said

On every side when the lurked forces been ngiged in flahing against the have been Alles the volume approaching when if the Turked Government are sufficiently wise they will throw the misclais on the marca of the Allies and thus iter the pix lies from the German YOK.

As an indication of how little the so called Turkish Government is in touch with the real sentiments of the Turkish people I may men tion that a few weeks ago I new a letter written by a resident in Constantinople in which after describing the oppression and exaction of the military authorities the confident opinion of the middle and lower classes of the Turks was expressed in the saying that it will be all right when the British fleet come up

As you are aware I paid a short visit to the Persian Gulf and to Bases a few waks ago It was a great pleasure and adventage to me to have an opportunity of inquiring into the whole conomic commircial and political situation our troops in the relyanced posts within an or soven mike of the Iurkish (amp which was plantly visible and to congratulate them on pasting visions and splendid bearing One-could not but helvers proud of them all I had also time to visit the hospitals in Basta and was glad to be aby to verify the fact that all the sak and wounded British and Indian troops are being well and carrinlly tended

As regards the province of Basra it struck me as one of immease potentialities. Under Turkish marule it has greatly suffered and the population of the surrounding country is con requently ver) spars. At small expense the city of Basra might become a sphinded port and the port of ent of all the trade of Mesopotamia and horthern Persia Mirrely the irings of the Shatel Arab have so far been cultivated, but the soil is extremely fertile. and only the most elementary schemes of irrigation are required to extend undefinitely improve are required to extend mountary;

the area under cultivation. The chimate is "Nobody can reasonably contend that spleadid and reasonable that of the Northern with the advance of civilization entading Punjab I cannot conclude of a country more the discussion and solution of new questions.

suitable for Indian immigration in the future when a more stable form of Government has been established. That country may then really become a garden of Eden and blossom like a rose

You are aware of the declaration made by the British French and Russian Governments of the involability of the holy places and of the freedom of Jeddah from attack so long as there was no interference with the Indian pilgrims. Solicitude for the welfare of pilgrims generally prompted His Majesty's Government on horning that there was a shortage of tood stuff at Jeddah and Mecca to arrange for stuff at Jeddah and Mecca to arrange for supplies to be sent there for distribution by the Italian (onsul at Jeddah I regret to state that the Iurkish authorities in spite of the protests of the Italian (ousal have sensed for military purposes a cargo of 30 000 sacks of burley destuned for the plignins Until, then fore we are able to receiv some definite as urance that any further supplies that may be sent will reach their proper destination at will be impossible for His Maye by a Govern ment to make any further similar arrangements

On the North Western frontar the situation r mains normal and although there have been attacks on our idvanced posts by trans fronts r trib smen they have been gallantly and successfully a pelled by our troops inditia and tribal levice

He then turned to a question which had excited a great deal of discussion in India—the action of the House of Lords in rejecting the action of the House of Lovas in rejecting are proposal to establish an executive Council for the United Provinces. On this point he remarked it has been with a sense of profound right that I have learnt that an address to His Majesty the Ling Emperor against the diate Produmation creating an against in Guar Problemation creating and in cuttle found for the United Provinces has been earth 1 by the House of Lords It appears that out or a total of nearly 650 Peers of the R alm and in a House of only 73 Peers the motion against the draft Proclamation was curried by 47 votes to 26. No information has been received of any similar motion in the has been reversed of any similar motion in the House of Commons and we may therefore conclude that the Proclamation has not been repetted by Parhament as a whole As you are aware the Proclamation was upproved by the Governor General in Council by the Secretary of State in Council and by His Majesty 5 (overnment and in accordance with the laws was laid upon the table in both Houses or Parlia ment It may seem to you as it does to me a matter of serious concern that it should be within the power of a small body of Pours who perhaps hardly realise the rate of progress made in this country during the past few years to throw out a proposition put by the Govern to throw our a proposition put by the wover-men of India and His Majesty's Government before Parhament with the full approbation of Indian public opinion. It seems clear to me under the enginesiances that a modification of the law by which such procedure is possible is absolutely essential, and I trust that this will be recognised by His Majesty's Govern ment

of ever-increasing complexity arising every day ca ver-remeasing complexity arising every day one-main government is better than Council Government. The principle of Executive Councils for local Governments, by which the local administration is less dependent upon the personal equation and which ensures a greater continuity of policy has arready taken root in India and cannot now be eradicated Mor-over the inclusion of an indian gentleman in the Council of a province is to my mind a source of great strength to the Governor or Lieutenant Governor I speak from my own experience and have no hesitation in saying without any idea of flattery that the presence of my friend Sir Ali Imam on my Council and his knowledge and experience are and have been of the greatest possible advantage to me and my Government I can well understand that all educated people of this country will be disappointed at the result of the action of a small party in the House of Lords but I would ask them not to be depressed for I regard the proceedings of the 16th March in the House of Lords as only a temporary set back and I feel as confident that the United Provinces will have its Executive Council within a very short period as that the lawn will follow the

The activities of the Council during the current session have necessarily been circum ecribed by the decision to avoid as far as pos sible all controversial business Nevertheless some measures of importance have come under wome incessure of importance have come under your consideration I need only refer to the measure recently passed in this Council to secure the drieter of Indua and the public safety in order to express the thanks of Govern ment for your loyal co-operation in enacting that measure Another Bill of importance has also been passed in this Council, namely the Assam Labour and Emigration Act which I hope will mark a stage in our efforts to remove abuses attendant on the present system of sustgration and in securing that the welfare of labourers recruited to Assam is adequately extensived. The only other measure of importance to which I need alinde is the Benares Hadin University Bill which was introduced into this Council on the 22nd It will be a source of gratification to me if this measure becomes law during my tenure of office as Governor-General. The Council then adjourned tine du

The Council met again at Simia on Suptember 8th, The Indian Trusts (Amendment) Bill was introduced The Indian Soldiers was introduced The Indian Soldiers
Litigation Bill providing for the special
protection in respect of civil and revenue bit protection in respect of civil and revenue un gation of Indian soliders serving under war conditions was introduced the Repeating and Amending Bill and the North West Frontier Constantiary Bill were introduced and the Sir Jamsetjee Jeeleekhoy Bero and the Sir Jamsetjee Jeeleekhoy Bero meters Bill was passed and the Inland Steam weezer Dill was passed and the Inland Steam
Yesseels Bill was referred to a Select Comton the Bill was affected by the Conference as a representative
the Benares Minds University
Bill was also and to a Select Committee At a by, and at, the Conference are made only
Bill was also and to a Select Committee At a by, and at, the Conference treefit and if preceferther meeting on September 22 The Indian
Parts (Ameniment) Bill was introduced as well as the Indian Medical (Bogges) Degrees succeeding Conference Trom this statement
of the actual constitution of the Imperial Cos
Bill. The Commercial Member introduced the
Bill was also and to a public subjective of the actual constitution of the Imperial Cos
ference, you will see that the ultimate decisions
the for the payment to a public subjective of the

moneys, the payment of which was or might be prohibited owing to the present war and to provide for other matters in connection with trading with foreigners. The Repealing and Amending Bill and the Indian Solutions Litigation Bill were passed

The first important debate was on a motion by the Hon. Mr Shafi asking for the direct representation of India at the next Imperial Conference The mover said that it was a source of deep disappointment as well as of profound astonishment that in spite of her prominent position in the galaxy of peoples and countries constituting the British Empire of her political, economic and strategic importance, of the obvious utility of her participation in the deliberations of the Conference and of the in valuable services rendered by her to the Empire valuable services rendered by her to the Empire India should have been hitherto excluded from this schemi of impurial Federation Continuing he asked My Lord is there a single problem of Impurial or even international interest in which India as an integral and an important part of the Prilish Empire is not directly concerned? Is there a single Imperial question in relation to which the interests of Grat Britain of the self governing Colonies and of India are under the existing conditions not indiscoubly bound together? Can any scheme of Imperial defence be regarded as complete without taking into account India s defensive requirements and her offensive capacity not only in relation to her own frontiers, but as recent events have made frontiers but as recent events have made it abundantly clear also in connection with the military needs of the Empire in every portion of the glob.? Is it possible to evolve any scheme of imperial Preference or to we any softems of imperial reference or to in-troduce any workable Imperial fiscal reform without taking into consideration what may be called Indias inter Imperial interests? To these and other cognate questions there can be but one answer India is directly and materially interested in all important problems. of the Empire of which she a proud to form an integral part to the same extent and in the same degree as any other portion of His Imperial Majesty's vast dominions India, he con-uluded was not content with the occasional presence of a Secretary of State at the Imperial Conference what she wanted was her own direct representation like the British Colonies

His Excellency the Viceroy intervening early in the dobate made the following important pronouncement .

"At the Imperial Conference of 1911 the Secretary of State for India was present at a meeting but India herself had no recognised place in this Conference

Representation is therefore, at present confined to the United Kingdom and the selfgoverning Dominions and no one can now attend the Conference as a representative

ference itself. It is, of course premature to consider the manner in which the representation of India, it admitted should be effected, but primes faces it would appear reasonable that India should be represented by the Becretary of State in cousult, attending the Perretary of State in cousult, without with the Viercey such nominees being ordinarily selected from officials resident or serving in India. The present practice of the Imperial Conference excludes non-official representatives. It would of course be incumbent on these nominees to set in the Conference in conformity with the policy and wishes of the Secretary of State. Just as in the case of the self-governing Dominions the Ministers accompanying the Prime Minister have to take their policy from him and the constitutional position of the Secretary of State in Individual superior

I have thought it desirable to put before you all the difficulties and obstacles that present themselves to the attainment of the object that we all desir and have in view. At the same time I am anthorised by His Majesty stovernment while preserving their full liberty of judgment and without committing them either as to principles or details, to give an undertaking that an expression of opinion from this imperial Legislative Council in the sense of the Resolution that is now before us will receive most careful consideration on their part as expressing the legitimate this rest of the Legislative Council in an Imperial question atthough the ultimate decision or His Majesty's Government must measurily depend largely on the attitude of other nembers of the Connected

This is I venture to think all that we can reasonably expect at the present time and that such a piedge is emmently satisfactory as showing due consideration for the claims of India We can only hope with trust and confidence that when the right moment arrives these claims may merit the approval and support of His Uslesty's Government and receive sympathets. consideration from the Governmente of the six governing Dominious

The resolution was very warmly approved by practically the whok touned. The only member who sounded a note of dissent was the ifon. Mr Setalyad who said he trusted that if the war there would be such readjustments made in India itself with regard to Government that India would secure its nood, namely self government within the Empire. He therefore hoped that nothing should be done piecomeal and in hurry at this juncture. The later speakers expressed no sympathy with Mr Sefalvad's position and the resolution was unanimously passed.

The Council met again on the lat of October when the North West Frontier Constabulary Bill and the Enemy Trading Bill and the Inland Steam Vessels (Amendment) Bill were passed The Report of the Select Committee on the Hindu University Bill was taken into consideration and it was proposed that the Bill as amended be passed After several speeches warmly welcoming the Bill and the stated of Government towards it had been made the proposition was unanimously accepted,

In winding up the session His Excellency the President again reviewed the situation in India as a whole He said—

"In India, tranquility has prevailed and measures taken under the Defence of India Act have succeeded in restor ny order in the Punjab which had been disturbed during the course of last rold weather by the return of emigrants from Canada and the United States imbued with revolutionary ideas. The powers granted under the Defence of India Act have been used with great care and discrimination by His Honour the Lieutenant-Governor and there is every reason to believe that the loyal people of the Punjab have been thoroughly satisfied with the working of the Special Tribunals created under the Act. I wish, at the same time to express my appreciation of the loyal attitude of the people of the Punjab in the sasistance they have readily given to the police in hunting down these dangerous despendence and my similation of the fearless and courageous devotion to duty of all ranks of the Punjab police.

On the frontier I regret to say that our posts have been repeatedly attacked by large bodies of ignorant and lansities tribesmen from tribal territory but in cach case they have been successfully driven back with considerable los see and at the cost of a few lives amongst our own soldiers. I always regret much neeless waste of the previous lives of our soldiers at the hands of these hordes of barbagous tribesmen. Nothing could have been more stamed and loyal than the attitude of our own tribesmen living within our border.

The Amir of Afghaniatan has from the beginning of the war observed an attlade of strict neutrality and I have every reason to believe that it will be rigidly maintained

In Persia the situation leaves much to be desired Roving bands of Germans and Austrians armed with rifles and machine-guns have been wandering throughout the country trying to sir up trouble, and as in the case with Turkey to provoke Persia to take hostile action against the Alles Only recently thanks to the cheourasp ment of German agents two Bittleh Officers and an Indian soldier were ambushed and killed by tribemen near Bushire and the British Consul at Ispahan was fired at and shightly grazed by a bullet while his security in Bushire and the danger to life and property in that port our troops are in cocupation of the city and with the consent of the Persian Government will remain there unit stops have been taken by the latter to restore internal peace and order. We trust that such steps may not be long deterred.

In conclusion, he added, that nobody could look upon the past fourteen months of war and the part India had played in it with greater prick than he did and nobody could be more appreciative than he was of the despected particlism and the wholehearted loyalty of the people of India, but as the war progressed its pressure would naturally be felt more and more atthough the final result was beyond question when times of pressure came they must show the world that India was united

The Council then adjourned sine dis.

## Bombay Legislative Council.

The Council met at Bombay on March 13 mendations of expert land valuers and lawyers 1915 and adjourned to the 15th after passing a The Bill was read a first time and reterred to a resolution placing on record its sense of source at the death of Mr. C. K. Gokhak and its appre ciation of his services on the Imperial (ouncil A Bill to smend the Bombay Medical Act Band the Bombay Council. The Funnancial dealing clin fly with the register of practitioners showed that the war had affected property was introduced by the Hon Ir W. D. Sh.p. vincial finance to a very limited extent. The part and referred to a Select Committee. Budget for 1915 16 opened with a balance of Rs. 15178,000 which it is anticipated will be reduced to Rs. 12901000 by the end of the reduced to Rs 1 29 01 000 by the and of the year the total ranne bing estimated at Rs 7 49 00 000 and the total expenditure of beirship Bill was withdrawn and the Bill to authorise the levy of dues on tesols for the provision of lights on the coast of Sind was read a thrud time, after the defeat of All amendment in favour of exempting from the payment of duca country crait carrying

The Hon Mr Hill in introducing a Bill to amend the Bombay Protection of Pilgrims Act 1887 said this was a single police measure designed for the immediate betterment of the conditions under which pilgrams have to proceed to the Hedgaz giving the Executive power to control the action of the shipping companies Patel moved a resolution recommending to vernment to consider the desirability of putting the Official Assignce and the Official Becarer Bombay on suitable fixed salaries The resolution which did not conguit Government to any definite line of action was accepted

The Council met at Poons on July 12 when The Council met at Poons on July 12 while the revised budget was discussed feature of the meeting were a resolution affirming the loyal support of India to the Imperial Govern-ment in the prosecution of the war and another expressing gratified to the King Emperor for extending Lord Hardings at Irm as Viceroy sour to Lord Hardings for this last praces of a further term of duty in his office. This being the last receing to be attended by the Sir Richard Lamb before his retirement complimentary speeches in his honour were

The Hon Sir Prabhashankar Pattani in Tre Ron ser Pragmanager Pattern in troduced a Bill to amend the City of Bombay Emicipal Act, 1888 explaining that the proposals in it commuted from the Corporation and were designed to tachitate the administration of the city Sir Ibrahim Rahimtoola and others spoke about the compensation to he paid by the Commissioner for land acquired for a public street holding that the Bill awung

The Bill was read a first time and reterred to a Select Committee It was passed at the Decem ber na etm g

A Bill to amend the Bombay Medical Act. pard and referred to a Select Committee Sr Richard Lamb moved the serond reading of the Bombay Survey Bill (see Indian Ver Book 1014 p. 447) upon which a Select Committee had reported unanimously The proposed key of the survey he chefted criticism from Br Ibrahim Rahimtools who maintained that the burden of this liability amounting to three lakhs should not be thrown upon the citizens of Bombay in addition to the Vunicipal contribution Bombay was already paying nearly 25 lakhs per annum more in the shape of Municipal taxation than Calcutta with about the same population that it is the survey fee was borne by Government The analogy was not accepted by Sir Richard Lamb and Mr (armichael and the Pill was read a third time and passed

Among the resolutions discussed by the Council was one in connexion with the interest. to control the action of the shipping companies charged on loans given under the Land improve in regard to the rates of passage charged by most Loans are several members urging them. The Bill was referred to a scheet come that Government should not make a profit mittee and in July after some discussion on taken transactions. A resolution by the was passed into law. The Hon Mr. J. Hon Mr. Godbok led to the explanation by Sar Richard Lamb of the policy of the Home Governments to be der rulways and a discussion of the working of the Local Boards Art brought the business of the Session to a

At the meeting of the Council in December 1110 after passing a resolution expressing the sense of loss left at the death of our Pherozeshall Michia the Bombay Medical Act (1912) Amend mut Bill was passed. Two new Bills wer introduced and passed the Bombay Landing and Wharfake Fees Act the object of which in to raise a fund for the improvement of the land ing places at inition ports in the Presidency by levying a small charge on each passinger travell ing by vessels touching at those ports and the Sind (Dirts Act (1866) Amendment Bill, which gives the Judicial Commissioner in Bind power to deliver oral judgments. The meeting was which asked for an amendment of Section 11 of the Bombay Medical Act in such a way as to enable the Municipalities to support dispensaries conducted by ayarvedic medical practitioners. This incidentally led to a discussion on the merits or demerits of the ayurvedic system of medicine in contradictinction to the Western system Two supports continuing that the bull swally in contrantmentor to the Western System from the principle of excessive compensation The discussion was led by the Hen. Suggeon-to the other extreme The Hen. Mr Orr General Lyons supported by the Hon Col. and that the meta change of principle was Jackson, whose criticisms of the astrovelle system time interaction of the principles of the Town term elected strong protests from various Indian Planning Ast, they had accepted the recommenders,

## The Madras Legislative Council.

During the year 1915, the Council had not to consider many Bills or Acts of importance but subjects of very wide interest raising large questions were discussed in the shape of reso lutions The Tirupati Devastanam Schools Act the Hindu Transfer and Boutests Act the Madras Medical Practitioners Resistration Act and the Decentralisation Act became law

The Bills brought in by the Government and by some of the non official members for amend ing out all provisions of the Madras Estates Land Act were not considered or taken up

The Madras Irrigation Bill which roused atout opposition from the non-officials was also not taken up in deference to the wish expressed at its introduction by some members and at its introduction by some members and acquiseed in by the Council as a whole that no subjects of a highly controversial character should be dealt with during war time. The Post Puberty Marriage Bill is still awaiting consideration. It was introduced in 1914 by the Honourable Mr. V. S. Smirasa wastrifor the purpose of declaring that marriages amongst Hindus after the guis attain the age of subjects were not invalid and one burst. the age of puberty are not invalid and are legal. A sharp controversy is still raging and the Coun cil is daily receiving communications from various centres in the Presidency regarding the Bill On the whole it may be said that it has met with the disapproval of the public at large and the Honourable Mr V S B Sastri is expected not to press for its consideration for some time longer The Hindu (oparceners Partition Bill and the Hindu Limited Owners Bill introduced by the Hou Mr M Ramachandra Rao are yet to be considered and discussed The latter Bill is intended to afford greater protection to pur chasers of properties from limited owners under Hindu law like widows mothers, etc. who suc-ceed by inheritance to the estates of males

definition of Denaturation amended in the Madras Abkari Act in New of a decision of the inleutta High Court so as to make it clear that the process need not result in rendering the ilouor effectually and i permanently until for human consumition

The Madras Port Trust Amendment Act gave the South Indian Chamber of Commerce a right to elect two trustees to the Port Trust The financial powers of the Board were increased by the provision that the Board could sanction, without reference to Government the construction of works the cost of which does not exceed Es 50 000 A Bill was introduced by a non-official member to amend and define the law of intestate unccession among the Moplaha governed by the Marupakkatayam or Allya santana Law of Inheritance There appears to be a feeling among the enlightened members of the Mopleh Community that the system of suc cousion by sinter a sons in preference to one s own calibrates is radically victous and opposed to the very laws of nature, it is to effect this desired change that the Bill has been brought former standing for election of butters.

The growth of factories in certain industrial cert tres of the Presidency has necessitated alight amendments in the Madras District Municipa lities Act and a Bill brought forward by the Government for that purpose was referred to a Select Committee It is proposed to enact that whenever a person wants to error a steam boiler or machinery by the use of which smoke noise or without on would be caused be should get per mission of the Municipality within the local limits of which such factory is to be started Municipal bodies will further be empowered to prohibit the working of such machinery between 9-30 pm and J 30 am A Bill proposes to amend the Madras Civil Courts Act by conterring larger pecuniary jurisdiction upon District Munsills the quality of whose work has on the whole carned the appreciation of both the public and the Government

By far the most important Bills brought for ward during the year were the three Bills to amend the Madras Medical Registration Act which were introduced into the Council by three different non-official members. The immediate cause of these bills was the striking off temporarily of the name of Dr M Krishnaswami Afyar u well known private medical practitioner in a won some private mouest practitioner in Madeas from the Medical Registry on the ground that he covered " an Ayurvedic Physician This conduct on the part of the Medical Council or nated great sensation throughout the Presi dency Lond protests were heard on all sides Some now appears had no other than the Some newspapers had no other theme but this for days together. There was an agitation of almost upprecedented severity against what was termed the monstrously unjust" act of the Medical Council. The members who brought forward the Bills complained that this action on the part of the Committee of the Medical Coun til amounted to contempt of the Ayurvedic system of modicine and that it was contrary to the pk iges given when the Medical Registration Act was passed into law to the effect that the Act would not be worked so as to mean discespect to the indigenous system of medicine proposed Bills may roughly be said to provide for four things —(4) be action about he taken against any registered practitioner because of his secolation with Unani or Ayuredic Sys-tems of medicine (b) what would amount to unprofessional or infamous conduct within the meaning of the Act should be clearly defined, have power only to investigate charges of un-professional conduct. The right of passing final orders should rest with the Medical Counctal Assessor to assist them to prepare their deci-lons. The Government in view of the volume of feeling roused in connection with Dr Krishnaswami Alyar's case gave leave for the intro-duction of these Bills without committing themselves to give their support to them

did not neset with the approval of the Government, but His Excellency gave an under taking that the suggestions thrown forward in the discussion of the subject would be consider ad when the question of amending the Local Boards Act would be taken up by the Govern mert. A resolution on the extension and improvement of the Criminal Settlements in the Presidence elicited a speech from Sir Harold Stuart who stated that the Government were a maxious for progress in this durition a the max-official members. The Gov remain was saked to latroduce the fixed fee system in tend of the auction system in the disposal of xose shops but the Government argued that no case was made out for a change and the resolution was lost. The request for fixed recurring gants to Dastrict Boards to mprove the sanitary condition of, and a good Medical relief to rural areas was met by the Governm at with the could in this respect consistent with its Spancial capacities. A member asked for the creat on of a library for the Crimcil at 1 cost of Ra. 10 000 a notary for the Crimer at 1 (1940) of 4. 10 000 but there was the Council Reading Room where Acts Departmental Codes and Books of reference were available. The Secretariat in rary had also been thrown open to Council Members. For these reasons the Government was not willing to accept the resolution. The Hon. Mr V S S S. str. withdrew his re-olution remarding the move of the Government to the Wilgiris during summer on an appeal made to him by His Excellency who considered it in the light of past evenus, a highly controversial subject which was likely to create sharp subject which was he divisions in the Council.

with reference to a proposal to increase the pay of District Mansairis and Schordinate Handsen, the Government teated that the subject was being considered by them. The flowerment had no objection to the formation of more Talug Boards by reducing the area of their justicities on wherever desirable in the interests of administration. The resolution that local bodies in selected areas should be given the exclusive power of determining the number and location of arrank and toddy shops within their limits subject to revision by the over nor in-Council did not command the approval of the Government as the proposal was not a suitable remady for the evil of crease in consumption of laquor. An attempt was made to introduce the Civil Procuine to do for the Ageny Thants in the Iresticuty by was defeated. The Government as the proposal was not be introduced to late the consumptions to the effect that wherever possifications would be posted to places within whose jurisdiction they had previously erved as such derive or revenue improtors. In framing rules under the District Employable, without inc avenience to the work of and previously erved as such derive or revenue into the proposal was not before the posted to places within whose jurisdiction they had previously erved as such derive or revenue into the proposal that the number of voters would not be instituted to the their thanks of the proposal that the number of voters would not be instituted as the proposal this request and consequence of public argumentation would be the proposal that the inquiry was asked for into the often made in the Presidency with a view to secure common was the proposal this request and consequency that the inquiry would serve no femored.

the | purpose as admittedly there was no extravag sace in public expenditure. The Council was asked to approve of the appointment of a committee to advise as to m asures necessary for the proper the m assures necessary for the proper estallshment of willage panchayats as suggested by the Decentralisation Commission, with larger judicial functions a purer system of elections and increased financial power! In response to this request Sir Harold Stuart announced that he Government had under contemplation the bringing in of a Bill to create contemplation the bringing in of a Bill to create village panchayata with judicial powers in petty dvil and criminal cases. Eve seven or nine villa eras commanding cundience would at as a Bench with three as quorum. Their dvil jurisdiction would be appreciably increased though the system of the village numelifaction along the same of the village muselfus atting sincy to hear certain clawers of cases would not be abolished. The village magnistrate a powers around by temperate to these conductions and the village magnistrates. be abolished. The village magistrate a powers would be transferred to these ranchayate which would be set up in each village or convenient group of villages. The announcement of the intention of the Government to propose in the lumedate future legislation o these lines was received with satisfaction by the whole council A resolution to make primary education free and compulsory in certain selected Mindispa-areas wa rejected at the opposition of Govern ment who atrongly urged the financial aspect of the question. The Government was not of the question anwilling to consider whenever opportunity permitted the question of making research into and investigation of the value of indigenous Indian drugs. It was also urged that the Government should choose non-official Presi dents for District Boards and that the Sanitary Boa d should be reorganised and its functions con arged so as to include the non-official element as in other provinces of India. The Ceylon Quarantine i cgulations for passengers going from India to Ceylon which made invid. ious distinctions between Europeans and Indians and subjected third class passengers to numer ous hardships and todienties wer criticised by a number of members. The Government amount cet that they had repend up negotiations with the teylon dovernment on the subject and they consider the contract of t expected to arrive at a satisfactory settlement

The Council debates brought to light some legislation that may be introduced by Govern ment in the coming year. The village Pacchaya' Bill has already been referred to There is every chance of a Bill being brought forward to prohibit smoking by Children The Local Boa ds Act would be amended in several impo tant respects so as to extend further the elective pri ciple. Wadrus Regulation XI of 1816 which deals with the punishment to be awarded to villagers for the commission of petty offences, such as using abusive language, undor assaults and affrays, would come in for much modification. The entire question of petty offences, such as using abusive language, undor assaults and affrays, would come in formation would be revised and a scheme would be devised to make the punishments such as the belongs to one of the lower castes of the people, would be done away with and the offensive distinction between caste and easte made in the present regulation would be

## Bengal Legislative Council.

The greater part of the sittings of the Bengal Mr Swan in his report on the industrial development of Bengal Mr Busselons on the Budget during which discussions on the Budget during which strength was drawn to a great variety of topi s A resolution was moved in favour and another for the promotion of female education in Calcutta In both cases the Bell on behalf of the Government accepted the resolution was refused by Government on the ground that funds were not available to the with the market One was an attempt the question of Mahomedan education was tripoposity uressed by Manyi A & Fazal Ling India the class these in which Government. vigorously pressed by Manivi A b Fazal Luq and others a complaint being made that no necessary delay had oc urred in providing an Arts college for Mahomedan students and also in erecting a hostel in College Square Mr Hornell pleaded that the delay was in evitable that it had resulted in a better scheme and that the work would be taken up as soon as an opportunity offered. Perhaps the topic which was most frequently mooted was that of the industrial development of Bengal. It Radha Charan Pal especially urxed the neres stry of taking action on the report prepared by Mr. Swan. In his reply Mr. Beatson Bell by mr swan. It his reply mr beautor bein said that Government were willing and anxious to do what was possible and that they had saked the Government of India to obtain an expert Director of Indiatrics The question of industrial development was again raised at a sitting or the Lexislative Council in Dacca when r Surendra Yath Banerjee moved when r Surendra Yath Banerjee moved that this Council recommends to the Covernor give effect to the recommendations made by log from recording their votes

or India the glass tubes in which Government quining is sold. The second was the difficulty experi need by Lord Carmichael in discovering in what place in India certain silk handkerchien in what place in more cereau and management were made which he had been accustomed to huy in Edinburgh Mr Beatson Bell them reterred to various industries and urged that th y should be dealt with in a more practical. spirit those experiments being abandoned which had apparently been proved to be unsufficient for Bengal such as the manufacture of glass and pencil making of Beatson Beil again referred to the application made by the dovernment of Bengal for a Director of Industries He would like to see an expert appointed with large funds and a free hand.

A motion by Wr Surendra Nath Roy that a City Civil Court, separate from the Cal utta. High Court be established in Cal utta for the trial of suits valued at Rs. 10 000 or under was strongly opposed by the barrister members in Council that the necessary measures be of the Council, but, on a division was carried taken as soon as it may be convenient to by 13 votes to 10 the official members abstate

### The United Provinces Legislative Council.

The Council met at Lucknow on 1 th Feb in their and bereavement rary 1915 Sir Jam s Meston presiding After a resolution moved by the Hon bic Khwa a Ghuiam us Saqlain expressing deep regret at the death of Lieutenant the Hon bic Kdward Hardinge and minimiting the respectful con-dolences of the Council to his Excellency the Viceroy the following resolution was proposed by the Hou ble Raja Str Sheoraj Singh This by the Hou big Raja Sir Sheora, Singa Trini Council places on record its sense of deep sorrow for the loss that the Empire has sus tailed by the death of Field Marshal Lord Roberts, that great veteran of India who has sarned an undying name by his splendid services and heroic character and requests the Lieutanant-Governor to offer its heartfelt commonded. The war started when the Pro-sympathy to Countess Roberts and other vinces had not recovered from a recent famine, members of the late Field Marshell s family Stocks were at a tow beel in August and it

In addition to the mover of the members spoke on the loss the Empire had sustained by the death of Field Marshal Roberts The Hon Khwaja Ghulamus Saqlain then proposed in view of the Puropean War and rumours connected with the War this Council recommends that his Honour the Lieutenant Govern w may be pleased Honour the Lieutenant Govern w may be pleased to take such uppen measures as may not be allowed to take unfair advantage of the struction, and that the price of food grains may not be allowed to take unfair advantage of the structure, and that the price of food grains may not be raised beyond reasonable limits. If Pine in reply said it was well to examine what stocks there were in the Province when the war commended. The war started when the Province had not recovered from a recent family.

in of the kharif. Then was broke out and prices were affected. There was a steady rise since July, except in November but the rise was in wheat 55 per cent and retail 40 per cent barley. omly 8 per cent gram 11 per cent that 121 per cent The mover's figures for England erece net in accordance with those given by the Prime Minister The purce of four was about equivalent to 6 seers to the rupos The short age of wheat owing to several causes was a reality almost every distract in India reported shortage till the kharil was resped Most districts reported that it was not bunyas who had hearded stocks but cultivators. High prices assisted the cultivator in paying his debts and he needed help. A good kharif had been followed by an easing of prices and the recent good rain it was hoped would further reduce rates. The mover had said that action by Government was processary Mr Pim called attention to the attempt by Germany to fix prices the result was disastrons and the German Government had been forced to attempt an organisation of the supply of good grains for the nation. The resolution was lost

At the sersion on 15th March, the Hon Vi Pim in introducing the provincial Emancial; statement for 1915 18 said entirely up precedented conditions had introduced an even larger than of guess work into the celimits and he saked for cheerful co-operation with the Government of India in securing economy and thereby taking a share if a small one to the financing of the war. Fratures of the in the managing of the war resource or the Bridget were the unusually beavy expenditure on ostablishments caused by the restriction of leave and the beavy expenditure which was expected to continue for a part at any was expected to continue for a part at any rate of the year under all heads affected by the prices of grain including more cape tally grain compensation allowance and dietary expenditure of all kinds. A preliminary provision of Rs 2,25 000 was made for grain com vastion of 188 2,25 1000 was made for grain com pensation allowance, and a welcome feature was the provision of Rs 70 000 for assistance to indigenous industries which have been badly hit by the war

At the meeting on 19th July the Municipalities 310, the object of which is to consolidate the Municipal law which is at present contained in four separate enactments and contained in four separate enactments and ave amending Acts, was introduced by Mr Pim Before the Bill, which has been a considerable Before the Bill, which has been a considerable time ender preparation was referred to a Salect Committee one or two members referred to its proposals. Mr Raza All trusted that the question of Mahomedan representation would be settled in select committee and Mr Motilal Rebett speaking for himself was in agreement with the suggestion. He said there was not a Commit meeting at which questions were not put relating to this matter and he thought if the questions were decaled proper for all, both committees would be able since for all, both communities would be able to settle down to work for the country's good Mr Pim, in reply to the discussion, pointed out that executive officers would only be appointed to Musicipalities where work was heavy Re

was natural that prices would rise till the taking | non official chairman, but even in those of the second class the experience has been that a non-official chairman can only carry on the administration at a great sacrifice of his private interests Public spirited gentlemen have been found willing to make this sacrifice, but as a permanency such a system cannot work and in the larger numbipalities it would ex-chade from the field of possible chairman nearly all the ablest citizens who much other wise look forward to this goal of their ambition but who would not be able to give up all their other interests Further relief in dealing with the current details of executive work must therefore he afforded if as we all wish the best available takent may be enlisted in aid of local self-government. The Lieutenant Governor is strongly of opicion that this assis tance can best be afforded on the lines recom mended by the Royal Commission on Decentrainstion namely that in the larger munk! palities the details of executive administration should be vested in a full time officer subject to the control of the board fren in these mangipality however th Local Government does not consider it necessary or desirable to introduce the complete separation of deliberative ntifficule the compared superstance of contracterizes and executive functions which characterizes the Bomian (orporation Act and still less does it desire to an estudia powers to the executive officer as would render him able to dominate the board or the chamman or to take up any other position than that of the right hand of the chairman in carrying out the details of the chairman in coarrain municipal administration. The Br Detailed Law The Bundelkhand Encumbered Estates Law Amendment Bill and the Bundelkhand Alternation of Land Law Amendment Bill, extending the application of these measures were passed. In reply to a resolution it was amounted that the Lieuten In reply to ant (Overnor was considering the represent ation of the Kumner Division in the Council.

At the meeting on 5th October the Kaswar Raja Bill, a non-controversal measure con cerning the land tenure laws in the perganna of haswar Raja to portion of the family domains of the Maharaja of Benares outside the bound ary of the State in which the Maherana has ruling powers) was passed. A proposal by the Hon Lala Sukhble Singh that the Government should be recommended to take steps to improve horticulture and arborculture as well as fruit and vegetable culture was passed and accepted and vegetabl culture was passed and accepted by Government The resolution suggested the organisation of a separate Government department to deal with the subject but Mr Burn the Chief "coretary gave adequate reasons why the Government could not approve of such a course. The Honble Lala Sukhbir Singh movived the question of the organization of village panchapats to settle petty civil and crimmal disputes and to look after sanitation rouds and such like matters. His resolution on the subject was passed and Mr Burn gave the sesurance that invocument had not been overlooking the matter and that in the cold weather a committee would be appointed to consider it. A number of amendments to the consider it. A number of amendments to the rules for the conduct of the business of the council were passed on the motion of Mr Durn. to season where were were was nearly no forting to the burden or solublistrative details (council were passed on the action of Mr Dara, resting on the chairman in the barge municil lives amendments make it seems from the said. "As Members know, none here to give two months notice of Bus they of the first class municipalities has as yet a wish to introduce.

## **Punjab Legislative Council**

The proceedings of the Punjab Legislative Council during 1915 reflected the Indianne of the war in that all legislation of a definitely ocatroversial nature was postponed and even in the discussions which arose there was little of the usual controversial element. At the first meeting of the year on March 13th the Hon Mir Mant prewinted the revised financial statement for 1914 16. It divided a financial statement for 1914 16. It divided a financial statement for 1914 16. It divided a financial statement for 1914 16. It divided a financial statement for 1914 16. It divided a financial statement for 1914 16. It divided a financial was larger and the expenditure smaller than bad been estimated. The Budget anticipated a defect of 41 lakes which was to be met from provincial balances. The Budget anticipated a defect of 42 lakes of which only six were hype therated to special purposes. The Budget had of course be a Influenced by the war. In a dislocation of trade had depressed the proof course be unfine to the disadvantage of agriculturists while the rise in the price of food turks had been affected in the financial distribution and been affected in the financial depression caused by the war in the financial of partity owing to the absence of a considerable number of troops from the Punjah

On the expenditure std the high price of foodstaffs had made a strious drain on proving claim compensation allowance being cost nearly five laking in 1944 is In the new Budg to it laking high laking cost marry five laking in 1944 is In the new Budg to it laking but down for this item. Mr. Mant explained in detail the arrangement by which a crore of rupers had been taken from the provincial forcement of India in return for a recurring asygnin of a laking in the first the Provincial Government owing to abnormal receipts from the sake of land had nor money than it could profitably spend at the moment and had in fleet purchased a permanent annuity from the fleet purchased a permanent annuity from the fleet purchased a permanent annuity from the fleet purchased a permanent annuity from the fleet purchased a permanent of the province that would not be affected by tuture revisions of the financial arrangements between the Government of the provinc that would represent interest on invested capital and the province instead of spending laylably for a few years had acquired a permanent source of income for the be not fit or posterity.

At the meeting of the Council on April 22nd the main business was the discussion of the Businet. An unusual and interesting point of cliquette arose at the comment ement of the sees sion. The How Mr Barron (1h) f Seri tary-called attention to the conduct of a non-offit in the meeting who had caused the pull leation in a newspaper of a list of quest ous which had been disallowed by His Honour the President. The member in question applicated or his breach of cliquette and His Honour accepting the apology said a stop must be put to this undesirable practice. The Hon. Mr Barron also introduced amended rules for the conduct of business in the Comball. The main provision of the new rules was to the effect that a non-official member about give at least two months notice of his

intention to introduce a Bill. Two months was the period that must elapse between the submission of an official Bill and any further proceedings in connection with it in order that the Secretary of State might have tune that the Secretary of State might have tunes to peruse the Bill and make any observations that he considered destrable. The Hom Mr. Thompson Revenue Secretary introduced the Punjab Military Transport Bill which was referred to a select committee. The Bill was designed to supersecte the Punjab Military Transport Aulmais Act of 1981. The main difference, between the new Bill and that Act were (1) the abolition of the system of registering were (1) the acceptance of in expectance and cartes (2) the introduction of more expectations methods of acquisition (3) provision for the sate custody of loads which (1) profition for the sair election in toward which were being carried by animals at the time of their impressment and (4) provided for permuting cam is to be hired for serve to corold the limits of India (ow ing to the difficulty of the limits of India (ow ing to the difficulty of the limits of India (ow ing to the difficulty of the limits of India (ow ing to the difficulty of the limits of India (ow ing to the difficulty of the limits). oftenning trained sarwans, when the latter is nally went with their under when hired but not when purchased) The Hen Ral Buhadur Pam Saran Dass mov I a resolution to the effect that at East 20 per cent of the total bak proceeds of Government waste lands in that (clonies should be enumbered for the provision of more effective samitary arrange ments for draininge water supply communications and model dwellings in the new colonles In the course of his spech the mover dwelt on the defictive san tary arrangements in the canal Colonics The Hon Mr Muhammad Shafi pointed out that it was more important to introduce son tary improvements in the old towns and villages thin in the new colony area. The Hoo Sir U chall beaton opposed the resolution on the grounds that enturing an revens was opposed to financial rules that experience in the old solonies did not justify the as umption that tovernm at neglected or would reglect the interests of the new colonless that district found resources in the new colonless were far in excess of these of non-colony distra t and finally that the g ographical principle in the di tribution of contributions from the in the distribution or constitutions from up-public valequir had never been recognised by Government He also pointed out that the local government only received 50 per cent of the sale proof do of waste land so that the 20 per cent ment oued in the resolution would mean 40 per cent of the local government's The Hon Mr Munt I manual Secretary also criticised the resolution as unwound in principle and as bound to be futile in its effects. His Honour the President pointed out that it was not the case that sunitary arrangements in the new colonies were so defective that it was necessary to make special arrangements to n move those of I rate. The mover then with dr w his resolution

A kingthy discussion then ensued on the Budget for 1915 16 in which most of the nonofficial members took part. In general the Financial Secretary was congratulated on his Budget and approval was expressed by most members of the suggested of one error to Imperial resources in return for a permanent assignment of \$1 \text{label} table. The Hon Mr Rubsan

mad than and other speakers reterred to the aspirations of the province in the matter of a Bigs Court and an Executive Council in attaining up the debate Sr Michael O'Dwyer await on the prosperous state of the provincial Onences and on the many calls that were being and on them for larger expenditure in all directions. He spoke of the far reaching effects of the war and of the economic d stress caused by the rise in the prices of food grains with the organized comepracy of returned em grants to subvert the Government and the outbreak of lawleseness n the Western Punjab he described the measures taken to Publish he diser bed the measures taken to cope with lawlessness Government he affirmed could face these outbreaks with squan mitt because they had proof that the overwhelming majority of the people of all changes and creeds were determined to support them in quelling the disorder. Finally, his Honor declared that the roal temper of the Mahomedans Sikhs and Hindus alike had ralked to the call of the Empire and were shedding their blood in its defence

At the Simia meeting of the Council on September 25th the amended rules for the conduct of business introduced at the last meeting were passed The Military Transport Bill was also passed The Hon Mr Thompson introduced the Medical Practitioners Regis tration Bill. The main feature of the Bill was the institution of a Medical Council of twelve half to be nominated by Government and half half to be nominated by Government and man to be elected by registered practitioners. The main duty of the Council would be to keep a register of practitioners who in its opinion were properly qualified in western medians-and surgery and it would have power subject to an appeal to Government to remove the names of those who had been convicted of offences or have been found guilty after inquiry of infamous conduct in any professional respect of mamous conduct in any processions respect it would also be made a punishable offence for a person falsely to presend that he was a regularized practitioner. The Bill did not interfere with harkings and walds and did not prohibit practice by unregistered practitioners. It was referred to a Select committee. The Lieut Governor closed the distribution of the property of the property of the select committee. The Lieut Governor closed the Committee. The Lieut Governor closed the Bingh relinquished his seat on appointment session in a powerful speech in which he reviewed to the Council of India

the condition of the province. He said the season's monsoon had been the worst known season's monsoon had been the worst shows since 187? Fortunately timely rain had fallen all over the Province except the Rawaphond and Muitan divisions and had saved the situ ation at a most critical time. Turning to the question of public security he referred to the measures taken to meet the suddless outburst of disorder in the south west and reviewed the revolutionary movement of returned emigrants. He said that the crim a committed all over the Central Punjab from November 1914 to July 1915—and they had not yet ceased created a state not only of alarm and inscensity but in some cases of terror and even panic and if they had not been promptly checked by the firm hand of authority and the active co-operation of the people would have produced in the province as was intended by the conspirators a state of affers similar to that of Hindustan in the Mutmy-paralys s of authority widespread terrorism muting of troops whole sale robbery and murder not only of the officers of Gov rament but of loyal and well-di posed subjects. He went on to point out that though most or the coust rators were sikhe they were in no way representative of the sikh community which had given such signal proofs of its valour and devotion in this war. The conspirators had been publicly disowned and repudiated by that community and it was the active help given by Sikhs throughout the province and by the authorities of Sikh states that enabled on many of the criminals to be brought to justice Of 6000 returned emigrants. His Honour said 2500 believed to be the most dangerous had been temporarily interned as civil prisoners 1 700 had been restricted to their villages or put on security and 4 000 had been allowed complete liberty of movement in conclusion Sir Michael O Dwyer spoke of the great part the mert al races of the Punjab were taking in the war Almost half the troops sent overseas were Punjabis and of 89 000 recruits added to the Indian Army since the beginning of the war 44 000 were from the Punjab

During the year the Council lost a valued month in member through the death of Sir Arthur Ker and another member Srdar Dalilt

### Burma Legislative Council.

The legislative harvest for the year was a very small. This we natural in the special circumstances caused by the war and the impending retirement of the Lieutenant covernor in the interval between the end of the financial year and the departure of Sir Harvey Adamson at the end of October the period covered by the extension of Sir Harvey's service no my bill was introduced though there was a certain answer of preliminary work carried out in connection with measures to be discussed

The first meeting of the Council took place on March 13th when the Hon. Mr. Rice intro-duced the Burnan Medical Bill, which follows the Boss of similar measures shacted

in Bombay Madras and Bongal The Bill m nompay marias and bottgat in but provides for the registration of duly qualified midical practitioners it also renders registered practitioners subject to the control of a medical Council made up of five members elected by the resident registered practitioners and four including the President nominated nominated by the Local Government The Council will have full control over the Registrar to be appoint ed and an appeal lies to it from any refusal of the Registrar to register an applicant. The Council has also the power to strike off the register are now member who has been convicted of a cog nizable offence or who has been found guilty. of intamous professional conduct after due inquiry by the Council An appeal is allowed from the decision of the Council to the Local he took a reasoned, hopeful view of the Government Persons eligible for registeration prospects of the allies and regretted the success of the college those of the German maximations are restoraging our from the decision of the Council to the Local Government Persons eligible for registration tall into three classes those registered or qualified to be registered under the Medical Acts these holding method degrees of one of the five Indian Universities and those who have been trained in a Government Andical School and are qualified as inflictary assistant surgeons or sub-assistant surgeons or Hospital assistants. The Bill was referred to a Select Committee

Then the Hon Mr Ketth presented the Revised Financial Statement. He raminded the Council of the Revised Financial Statement for the previous year and stated that an esti not the previous vial and stated that at the mate based on the meome and expenditure of ten months four of peace and six under war conditions showed a deflet of Rs. 38 85 lakhs This deficit was to be met by a reduction the expenditure of Rs 31 )2 la hs and the deple tion of the balance by Rs 7 53 lakis As the original estimates provided for the expenditure original common provided for the expedition, of Re 47 70 lakks out of the opening balance of Rs 136 75 lakhs the balance was thus to be lowered by Rs 65 23 lakhs in all and would stand at Rs 84 13 at the opining of the view 1916-16 The proposals for that year nurolved an expenditure of Rs 582 27 lakks with an income of Rs 582 4. lakks This expenditure was less than the original estimat for the provious year of Rs 627 92 lakks by Rs 59 50 lakks and Rs 14 31 lakks less than the Revised Estimate of Rs 596 60 lakks but nearly 0 lakhs more than the actuals of Lali 14 The deficit was to be met out of the oraning balance which was thus reduced by a In ther Ba 13 85 lakins to Ra "0 28 lakins of which Rs 26 49 lakins were ear marked for special purposes The province was to be congratu lated on not having been compiled to adopt more rigorous retrenchment and on the per manent addition of Rs 15 11 lakes to its income in the form of a recurring assignment from the Imperial Budget

As this was the first meeting of the Council since the outbreak of the war the Hon Mr Hosein moved that this Council a cords its deep conviction of the righteousness of the cause of Great Britain in the present war and assures His Majesty's Government of the unswerving loyalty and devotion to the British throne of all communities and classes in Burms In his speech the mover of the resolution men tioned the great disappointment and pain caused tioned the great disappointment and pain causes to the Musalmans by Turkeys participation in the war on the side of Germany and Austria and expressed the opinion that this course of action was the work of a small minority of the officials and that the majority including the Sultan and the Crown Prince were averse from war The motion was seconded by the from war The motion was seconded by the Hon Mr Cowasjee who pointed out one redeeming feature in connection with the war It had caused a tremendous wave of loyalty to sweep over the whole Empire especially India, and illustrated to the whole world the immener solidarity of the British Limpir-The honourable geutleman expressed his sense of deep obligation to the British Navy for the officiency with which it had cleared the seas of the enemy's ships and enabled commerce to proceed without interruption almost as asialy as in time of peace. His Honour the President supported the resolution in a speech in which old ally Turkey

The meeting of the Council on April 3rd considered the report of the Schot Committee on the Burms Medical Bill No amendments of a drastic nature were suggested. In the discussion on the Bill the Box Mr. Du Bern proposed that the proceedings of any inquiry under this Act into the conduct of a reststered practitioner should be reduced to writing and contain a full statement of the charge does ments and evidence in support and in refutation of the charge the defence and the Council's decision. This aroendment was accepted A proposal by the Hon Mr Douglas to compel those registered under the Vedical Acts to right render this Act also was not approved.

The bill was then pas ad

The Hon. Mr Keith presented to the Council
the sanctioned Budget Estimates of the Proof the Gounell on April oth 1915 The Hon Mr Hosen noticed the backward state of Mahomedan education which he said had been made the theme of a good deal of platform ratory and hterary offusion of popu iarity hunters all over India as a means of self advertis ment, but no progress commensurate with the magnitude of the activation had been achieved. The Hon Mr (owasie pointed out that while the price of tuber had risen out this work by more than 80 per ent the forest keeping had its n in the same period by less than 30 per cent As a rimedy he suggested an extension of the perations of the Forest Department in the extraction of timber which at present is mainly in the hands of private firms holding leases. The Hon Maung Perferred to the increase of crime in Burma and suggested a return to the village system. The police he said were not beloved of the The point he said with not beloved of the into the confidence of the Government and should be given powers within their respective village tracts to preserve peau and order and to bring offenders to justice

The Hon Mr Du Ben droussed the expuditure on education for the past ten years. He suggested that it would be interesting to know how much of the heavy annual expen diture from Various sources was divided amonst Primary Vernacular Primary Anglo-Vernacular Secondary and Higher University Education. and also on various forms of Technical Edu cation. He expressed dissatisfaction with the results of Anglo \crossular Education and asked whether it was not time to fix a maximum saked whether it was not time to my a maximum expenditure from public funds on higher education and apply the available balance to prinary v macular education The Hon. Mr Bire pointed out that under the Burnas Village Act the headman had ample powers and the duty of assisting him was imposed on all in habitants of the village-tracts. It was the consistent policy of the Government to encour age headmen to exercise these powers and they did in fact give invalnable assistance in the prevention and detection of crime. The Hoa.
Mr Keith explained the system under which forests were leased to private firms at a fixed rate of royalty for fifteen years with the right of

renewal on revised terms for another fifteen years. Thus Government did not get the bracks at anot of a rise in the price of timber but on the other hand it was guarded against a loss when the price fell. A scheme for the strengthening of the forest establishment was under preparation

His Honour the President briefly reskined the effects of the war on the industries and finances of the province and found cause for congratulation in the fact that the demonstrate effects had been far less serious than might have been anticipated. The worse suffer refrom the war had been the ruby miners of Mogok many of whom had been compelled to migrate and find substitution claud to The chief meonyemmee to the province as a who was the shorter of hipping and the high rates of fright. But Burnin hard this inconvenience with other parts of the lapping as the inevitable consequence of a great war

The Council then adjourned size dis

Though the Burma Medical Bill, No. 1 of 1915 is the only legislative outcome of the (ouncil a discussions there are several measures in course of preparation including a water Hyacinth Bill an Excise Bill a Satt Bill, and a Prevention of Inconlation Bill The first Bill will deal with the extinction of a weed introduced it is said by Chinamen to Burna an nearty are which threat us to choke canals and navigable creeks in thany parts of the Delta The last is designed to put a stop to an old and dangerous Burmese practice which serves no useful purpose since the discovery of vaccination as a prevention of small por

A Burma Wolfram Ordinary is under con skleration. This is a war measure intended to fullitate the supply of labour to the mines and men as the output of the tunesten one that in n pured in exceptional quantities for the purposes of the war

### Bihar Legislative Council.

The Council met on Japuary the 19th when His Honour the Leutenant Governor referred to the splendid loyalty of the Province Hon Mr Bishun Prayad moved a resolution ex pressing to the king Emperor the unqualified loyalty of the people of the Province and the sense of full support to the just and rights our war which Briton had been compelled to under take also of gratification at the employment of Indian troops The resolution was unanimous ly carried R plying to questions it was stated that the main buildings under construction for New (apital are Covernment House and Coun ch Chamber the Secretariat the Post and Tele graph Offices and the High Court The founds tions of these buildings had been finished and work on the superstructures was well advanced

On March 13th the Hon Mr Gait provinted the revised financial statement. He said that owing to the war they had been asked by the Covernment of India to restrict their expendi ture as much as possible whilst next year they had been permitted to draw on their balances only to the extent of 33 lakhs. The greater part of this expenditum would be on the erection of buildings in the new cental. Mean reasons which they were on the point of introducing, in cluding the scheme for the reorganisation of the excise department and a more liberal system of acholarships in schools and colleges had thus neces arily been postponed. Owing to the dislocation which had thus been caused it had been decided to postpone for the prount the revision of their provisional financial settlement which would otherwise have been made with a view to the introduction of a permanent sett ement with effect from the commencement of the coming official year On April 7th the Hon Mr Brijkishore Prasad moved a resolution ask ing for the appointment of a committee to in quire into the strained relations between plan tors and ryots. The Hon Mr Levinge said that Government were awaiting reports from the Board of Bevenue and the Survey Settlement Officer on the subject. The resolution was nega-tived. The Hen Mr Brijkishere Presad merch

that the privilege of electing the chairman might be extended to some of the municipalities where it had not existed and that Government should is not not rectain an analysis of the election of non-officials as chairmen. The Hon the Maharaja of Durbhangs accepted the first part of the resolution but opposed the second portion

When the (ouncil reassembled on September 8th the Hon Mr Levinge moved for leave to in froduce the Bihar and Orisea Cass (Amend-ment) Bill 1015 He said the primary object of the Bill was to give effect to recent orders of the Scarctary of State placing the proceeds of the Public Works Cess which have hitherto been paid to Government account in district treasur ries at the disposal of district boards and dis trict committees. The Hon Mr Lavinge next asked for have to introduce the Bihar and Orison. Excise Bill 1915 He said that early in 1912 the Government of India remarked on the increase in the number of excise prosecutions reported from the United Provinces in 1911 and in the number of convertions for offences relating to ocain in Bengal which then included Bihar and Orises and they drew the attention of the tian raments at the United Provinces and Bengal to the inadequacy of the penalties pro-vided by the local acts in force. The question of amending the Act in the manner suggested was taken up and it was a sliged that it would be more onvenient that the Province should have an Facise Act of its own. The Bill was introduced and referred to a select committee The Hon Sir Edward Galt introduced the Patna Administration Bill 1915 and it was referred to a School Committee The Hon Sir Edward Galt also moved for leave to introduce the Bilar and Orissa Madical Bill, 1915 which was referred to a Belect Committee Several mem bers then addressed farewell speeches to His Honour the President who is leaving India In his reply the President referred to the need for co-operation which would be manifested during the next year or two in this as in every other province owing to the period of financial strip gency which was in store

### The Public Trustee.

The Public Trustee of England is a Govern least Official created by Statute (Public Trustee Act, 1906) whoreby the State acts as an executor or as a trustee under Wills and as a trustee under wills and as a trustee under Settlements whether these instruments are new or old and in other offices of an analogous character

The office has been a great success in the seven years that it has been open the value of the trusts in course of administration have amounted in round figures to ±50 000 000 will be estimated value of Wills lodged in the Department which have yet to mature is put at some ±59 000,000 aboving a total value of business of all kinds negotiated at ±110 000 000 of

Fees chargeable —The office is now entirely self supporting and is no charge upon the tax payer. A provision of the Statute declares that the Office is to make no profit but to charge only such fees as may provide the working expenses and constitute a reserve fund against the flabilities assumed by the flats for breach of trust. In accordance with this mutual principle the fees have already been reduced from their original scale and the cash surplus of severexpenses regarded as the pucleus of a reserve fund for all contingencies is now 144 585.

The main fees are of two kinds—a fee on rapital and a fee on medium. The res on capital are taken in two instalments—an instalment of half taken at the beginning and an other instalment of half taken at the end of a trust—each instalment being calculated at the indicated rates—

On the first ±1 000 fifteen shillings per cent.

On the excess of 11 000 to 120 000 five shill lines per cant

On the excess of £20 000 to £50 000 two shillings and any pence per cent

On the excess of £50 000 one shilling and three pences per cent. The Fee on Income is one per cent if as is usual the income be paid direct from its source to the person entitled on any income in excess of £2 000 a year the fet is only † per cent where the income is paid through the Depart ment then the fee is two per cent. up to £500 a year and † pir cent on any excess of £500 a year and † pir cent on income in excess of £500 a year and † pir cent on income in excess of £500 a year and † pir cent on income in excess of £500 a year. The fee on investment is † per cent. the Public Truetee, out of this fee paying the brokerage. There is piwrit to vary these fees to meet the peculiar circumstances of special cases but owing to the low range of the fees and their mutual obstacter the power of reduction is but seddom exercised

The Department has been organised upon lines followed by commercial organisations forms are avoided wherever possible the methods of the Office preactibing prompt attention to all matters within the day

The particulars of any trust in which it is desired that the Public Trustee should act may be brought to his notice by letter or by personal interview and upon his assent being obtained, this appointment should be effected in the ordinary way as in the case of private trustees, in the case of a Will about to be made his appointment can be secured by the simple provision I appoint the Public Trustee of England as the executor and trustee of this my Will

One of the forms of trustceship which would appeal to English people residing in India is a appear to Engish people resuming in lines is a scheme known as a Declaration of Trust An official pamphlet explains that the Public Trustees services have been requested by people who either because of professional or being who etailer occupies of projections of the business pre-occupation or from want of experience in dealing with money matters or from the disadvantages which might attach to Governmental professional or business dia ablitities abroad, are not well placed to select and supervise their lavestments it would and supervise their investments it would appear that the services of the Department in this matter were first regul. Itioned by officers taking up appointments in India and fell w ing out their request for individual assistance this scheme of trust came to be devised, and has been found to commend itself to the circum as account of the comment result of the vicinity disadvantaged. A Declaration of Trust is an inexpensive form of trusteship by virtue of which the owner practically retains full control over his capital. The property is made over to the Public Trustee either in the form of money to be invested or specific securities transferred into his name and thereupon the Public Trustee executes a short "declaration setting out that he holds the money invested or the securities in trust for the transferor The result of this is that income as it accrues, is paid to the owner or to any beneficiary as he may direct. A wide field of investment is permissible as the trust provides that the runds may be invested as the owner may from fine to time direct. As the pamphlet sets out interest at the rate of at least 4 per cent is to be looked for under the scheme from investments of a non speculative character. It should be understood that this form of trusteeship is not analogue to a bank doposit, where the return of the capital at pur given the solvency of the bank is expected. Investments are selected with the greatest care in consultation with the owner but it must be understood that the Public Trustee does not accept responsibility for any fluctuation of any of the investments chosen. The fees payable for this scheme of crusteeship so far as the capital fees are con cerned are half those payable in the case of an ordinary Settlement. The other fees are the same as the ordinary fees.

The appointment of the Public Trustee secure certain definite advantages inasmuch as he is by Act of Pacilament a Corporation Sole and thus it is said the Public Trustee never dies, so that the expense of appointment of other Trustees is permanently avoided His

is necessarily experienced and skilled in his ment duties

set up to give the best consideration not only to the selection of investments but to the duty

An Advisory Committee of men of recognised authority has in the past year been appointed by the Lord Chancellor to assist the Public Trustee by a quarterly review of the the Public Trustee speaks of having secured a return of £3 19 4 per cent upon his trustee investments and a return of £4 10 1 per cent upon his non trustee investments

The success of the Department would seem in success of the pepartners would seem to show that there is a widespread public need in Ragiand for such an Office, and the energy and efficiency with which the Department has been constituted and conducted has been a great factor in commending it to the public The State Guarantee is also doubtless a factor of great importance. A statutory rule pro-

integrity is guaranteed by the State while the vides that strict scorecy shall be observed in manners of his success would indicate that he respect of all trusts administered in the Depart.

The administration is subject to an angle by the Controller and Auditor General (the Government Auditor) while the Internal orga Chose personal attention is given by the Controller and Auditor General (the Public Trustoe and his senior officille to the Government Auditor) while the internal organisation of a check and counter check upon the principal of investment a large organisation has been pulled to the counter check upon the administration ministration

An important section of the Statute gives the of keeping them under frequent observation | Public Trustee power to direct an audit and investigation of the condition and accounts or any trust

> Officials in India will doubtless tend to make an increasing use of the Department. As a Government Office its stability will commend itself to them as a medium to safeguard their interests under Wills or Settlements which can be entirely relied upon and free from the nsks and expense attendant upon any other forms of trusteeship

Further information upon details and copies of the official pamphlet riports and rules etc can be obtained of the official agents to the Department see —Messrs King Hamilton & Co Celoutta and in Bombay Years King King & Co whose head office is Mesars Henry S King & Co & Combill London, F C

#### PROVING OF WILLS.

In British India it a person has been ap | 2 pointed executor or the will of a deceased person it is always advisable to prove the will as early as possible. If the will is in a virna cular it has to be officially translated into Ragish A petition is then prepared praying for the grant of product of the will All the property left by the deceased has to be disclosed in a schedule to be annexed to the pri tion. The values of immoveshle properties are usually sascened at 16? years purchase on the nett Muucapal assessment for estatements 10 000 the probat duty paville is 2% between Rs 10 000 and Rs 50 000 the duty payable is 25° Over 50 000 rupees the duty payable is 3° In determining the amount of the value of the estate fort he par poses of probate duty the following items are allowed to be deducted —

Debts left by the deceased including mort gage encumbrances

The amount of funeral expenses

Property held by the docensed a trust and not beneficially or with genera power to conier a beneficial interest

The particulars of all these items have to be stated in a separate schedule. It is the prac-tice of the High Court to send a copy of these achedules to the Revenue authorities and if the properties particularly immoveable pro-perties have not been properly salled, the Revenue department require the pedition to be incended accordingly. In certain cases the Court then requires citations to be pub the court then requires charlons to be war issued and served on such persons as the Court thinks are interested in the question of the grant of probate. If no objection is ledged by any person so interested within 14 days after the publication or service of citation and if the will is shown to have been properly executed and the petationer entitled to probate is ordered to be granted

#### THE INDIAN SCIENCE CONGRESS

The third annual Indian Science Congress The third annual Indian Science Congress will be held in Lucknow on January 18th, 14th and 15th 1916 Many of the papers are of purely technical interest but several dest with matters of direct public importance. Such are Ridecation in its r iston to Agriculture," by Mr. B. Coventry The Re-alignment of Hold lags, "by Mr. B. C. Burt "The Application of Botanical Science to Agriculture," by Mr. A. Howard, and Winds at samous Cloud Levils and their relations of the Monagon between and their relation to the Monsoon by Mr W

A Harwood Plant and animal life in water come in for a good deal of attention, as may be seen from the papers Seasonal Conditions come in for a good deal of attention, as may be sen from the capers Seasonal Conditions governing Pond Life in the Punjab by Mr Batal Parshad A Bertiew of flotative Adaptations of certain Water Plants," by Mr M 8 Ramasawani and The Aquatic Weeds of the Godavari and Pravara Cangia a Study in Applied Recounty by Dr W Burns Dr J C Box is to deliver a public lecture on invisible Lezht

### Freemasonry.

In an Institution so universal as Freemass ary . Dutrict Junior Grand Worden Maharaja of Kuch In an institution so universal as freeman my the growth of that body in any particular part of the world is usually similar in all respects to the development in other parts. When Freemasonry was first established in Bombay and became strong enough to have its own Provincial Grand Lodge, the Grand Master of English Freemasons appointed James Todd a Lieutenant of Police, as the first Provincial; Grand Master in 1704 This office he held until 1798 when the Provincial Grand Lodge seems to have gone into abeyance 4 revival arcmic to have gone into accycline a fevival apparently set in in 1833 and Lodge Orion in the West was founded at Poons. This was followed in 1844 by Lodge St. Andrews at Kamptee and in 1348 by Lodge St George in Bombay In 1861 the Provincial Grand Lodge was revived and George Taylor was appointed P G M.

In 1870 a fresh warrant was I sued by which the Provincial Grand Lodge of Bombay was silered to District Grand Lodge with James Gibbs as D G M The nort D G M was Ed ward Tyrrell Leith who took charge in 1879 and he was followed in 1897 by H R R the Duke the was followed in 1897 by H. R. H. the Duke of Connaught. The ten ainder of the District Grand Masters were H. E. Lord Sandhurst 1885 1899 H. E. Lord Northrote 1800-1902 Hon. Sir Lawrence Jenkins 1903 1907 and G. Owen W. Dunn 1908-1911. The present D. G. M. beding W. 40san Haig Brown who was appointed in 1912.

Under the skilful management of these illustrious men the District has grown until now there are under the District Grand Lodge of Bombay 40 Lodges with a total membership of over 2000

At the same time the Royal Arch and Mark At the same time the Royal Arch and Mark degrees have also prospered and there are 18 Chapters with a total membership of over 600 and 11 Mark Lodges totalling over 300 One of the principal objects of Masonry being charity it is interesting to know that from January 188, to December 1912 the Lodges and chapters subscribed over Ra. 62,700 to the Bombay Masonic Association and inclividual brethren over Rs 22,800 Of these amounts practically Rs 53 000 has been spent on school ing, etc., of children of deceased or indigent masons and it is hoped that sufficient funds will be forthcoming to form a fund the interest on which will be sufficient to clothe feed and school more of such unfortunate children than hitherto has been possible

The Lodges in the District also have to pay every year a small fee for each member to the Board of Benovolence and these contributions have enabled that Board to disburse to widows, distressed masons and to famine relict tunds etc a rum of nearly Rs 48,000

DISTRICT GRAND LODGE E C List of Principal Officers, 1915 CALCUTTA

R W District Grand Master Right Hon Baron Carmichael of Skirling GOJE, ECMC

Deputy District Grand Master, Hon Sir James Muston K.O.I.II Dustrict Senior Grand Wardon, D. Landele

Johnston.

Behar

Dutrict Grand Secretary J A Dolton ROWBAY

R W Dutrict Grand Master W A Haig Brown JP

Depidy District Grand Master C B Robinson, JP Pub (Eng)

District Sentor Warden, Khan Bahadur F N Suntook District Junior Grand Warden, Dr. F. Efford

District Grand Secretary J F Pennock, V D IAUDO (Eng)

MADRAS.

R W Dudriet Grand Master Hon Mr Ll B Burkley

Deput / District Grand Master C J Higgs Dot set Sensor Grand Warden, Col D M Bibington

Dutrict Junior Grand Warden, A. L. Hannay District Grand Secretary J H B Brougham

R W Dudged Grand Master The Hop. Mr Justice E W Ormond.

Deputy Dutrict Grand Master Col H W Schlor

District Senior Grand Warden W Kendali District Junior Grand Warde i G H Evans Dutrict (rand Secretary A Blake

GRAND LODGE OF ALL SCOTTISH FREEMASONBY IN INDIA

Installation-November (St. Andrews Day) COMMUNICATION-4th Saturday in January, April July and October

PLACE OF MEETING - Freemasons Hall, Ravelin Street Bombay

Grand Master The Hon ble Mr Justice F C O Beaman, 109

Grand Master Depute P C Set has Substitute Grand Master P R Cadell, G.I E.

ICS Honorary Substitute Grand Master T Stini

vasacharya. Grand Superintendent of Northern India, Lt -Colonel J I Barry

Grand Superintendent of Central India, Col. F W P Macdonald.

Grand Superintendent of Southern India, J Pr reak

Grand Superintendent of Eastern India W. R. Courtey TCB

Semor Grand Warden E (Jements L. 3 Mirra All Mahone d ďσ Khan

Junior Grand Warden C H Stophins C W Ives Do do

ďо G Secretary-ARTHUR W WISE, Elphinstone Building, Mutzban Road, Fort Bombay

#### BENGAL MASONIC ASSOCIATION

for

Educating Children of Indigent Freemasons.

Registered under Act XXI of 1860
Instituted in 1869

President — The Right Hon ble Baron Carm chael of Skirling, Guine, Kolli G., District Grand Master

This Association is supported by capitation assessments from the Lodges in the Di trict of Bengal and by voluntary contributions.

- 1 A donation of Rs 500 made in one or more payments of not less than Rs 0 each constitutes the donor a tree President for Life with the privilege of five votes
- 3 A donation of Rs. 100 constitutes the donor a Contraor for Life with the privilege of one vote and one vote for each additional donation of Rs. 100
- 3 A subscription of Rs 16 per amount entities the subscriber to one vote for the year and an extra vote for every additional Rs 16
- 4 The conditions of the abo c are the same whether the donor or subscriber be an individual or a Lodge, Chapter or any other society
- 5 A general meeting of subscribers is held twice in the year at Freemasons Hall Calcutta. 19 Park Street
- 6 The general conduct of the affairs of the Association is extrusted to a committee composed of the President. Trevaurer and Secretary, and of the Members to be elected at the February Half yearly benound Meeting.
- 7 The funds of the Association we devoted solely to the board and education of children
- 8. Cluddren are admitted into the Association at the age of seven years and continue therein till they have attained the age of seventeen years

Thus rule applies equally to children of both series without any distinction of religious denominations

- 9 Elections take place at each Qrow of Meeting of Subscribers according to the number of vacancies and capabilities of the fund
- 10 No child is eligible to be placed on the Last of Candidates unless his tather has been a Registered Mason for five years and Bubschling Member of some Lodge for at least tired years of that period

Subscriptions and donations are received by the District Grand Secretary and by the Secretary of the Association (Herbert E. Kent, Freemanns Hall 19 Park Street

> W J Bradshaw Honorary Treasurer Herbert E Kent Secretary BENGAL MASONIC FUND OF BENEVOLENCE.

## GRAND COMMITTEE President

The Right Honourable Baron Carmichan of Shirling 601 E., LC NG., District Grand Haster

The Hon ble Sir James Meston ECIE., Deputy District Grand Manter

- ( D Stewart PDdW
- S A Fairweather Deputy Crand Treasurer
- J A Dolton. Deputy Grand Becretary
- H L Kent Deputy A Crand Secretary
  SCOTTISH MASONIC FUND OF
  LENEY OLENCE.

For the purpose of affording temporary relicity indigent breemseems and their families

(rand Secretary—Arthur W Wisi Elphin tone building Murrban Road Fort, hombay

THE SCOTTISH MASONIC BENFVOLEYT ASSOCIATION IN INDIA.

- (a) For the purpose of granting Anauritz to old and destitute I remasons and their widows.
- (b) ( lanting allowances towards the mainting near and education of the children of deceased or indigent becomes one
- ( D Furdonjee Honorary Secretary and Treasurer
  - J ( Mistr. Himorary tension Secretary Diphreston: Building Murzban Road Fort Bombay

THE SIND MASONIC DENEMOLETT
ASSOCIATION

Registered under Act XXI of 1800 (Established 1873)

#### Patron.

Right Wor Bro H I the Right Hon ble Lord Lemngton 00000 0016 Late Grand Master of A Y F., Indus and Governor of Bombay

L H Chetham President

Servetyry —Francozo L Punthakey, Victoria Street, I redy Quarter Karachi

### Indian Architecture

#### I ANCIENT

The architecture of India has proceeded on lines of its own and its monuments are unique among those of the nations of the world. An ancient civilization a natural bent on the part ancient civilization a natural bent on the part of the people towards religious fervour of the contemplative rather than of the fanatical sort, combined with the rinness of the country in the aterner building materials—these ar-a few of the factors that contributed to making it what it was while a stirring history gave it both variety and glamour Indian architec-ture in ambiect which at the best has been studied only imperfectly and a really com prehengive treatise on it has vet to be written The subject is a vast and varied one and it may be such a treatise never will be written in the form of one work at any rate. The spirit of Indian art is so foreign to the European. of art culture that it is only one European in a hundred who can entiresy understand it while art criticism and analysis is a brunch of study that the modern Indian has not as yet wentined upon to any appreciable extent Hitherto the one and with a few exceptions the only recognized authority on the subject has been Fergusson whose compendious work is that which will find most ready acceptance by the general reader. But Fergusson attempted the nearly impossible task of covering the ground in one volume of moderate dimensions and it is sometimes held that he was a man of too purely European a culture albeit wide and eelectic to admit of sufficient depth of insight in this particular direction. Fergus magni in this paternar direction rergus son's classification by races and religions is however the one that has been generally ac-cepted hitherto. He asserts that there is no stone architecture in India of an earler date than two and a half centuries before the Christ ian era and that India owes the introduction of the use of stone for architectural pur poses as she does that of Buddhism as a state religion to the great Asoka who reigned B U

#### Buddhlet Work.

Forgusson's first architectural period is then the Buddhist of which the great top-at Sanchi with its famous Northern gateway is pedana the most north example. Then we have the Gandharan topes and monas teries Porhaps the examples of Buddhist architecture of greatest interest and most ready access to the general student are to be found in the Chaltva halls or rock-cut caves of Karli in the Chattva halls or rock-cut caves of Karli cations. The dome not entirely an unknown Ajunts Nask Ellors and Kanherl A point teature hitherto became a special object of with relation to the Gandhara work may be alluded to in passing This is the strong favourites constructional form of the Hadu Ruropean tendency variously recognized as bulkles was now forced on their attention by Roman Byzantine but most frequently as the predilections of the ruling class. The foliago seen in the capitals of columns bears. The requirements of the new resignon—the strong resemblance to the Girck accritical recognized with its wide stances to most the most in mass. strong resemblance to the Greek acanthus while the sculptures have a distinct trace of

The architecture of the Jains comes next in order Of this rich and beautiful style the most noted examples are perhaps the Dilwara temples near Mount Abu and the unlaws Toner of Victory at Chittore

#### Other Hinda Styles.

The Dravidian style is the generic title usually applied to the characteristic work of the Madras Presidency and the South of India. the manuar residency and the sound of India.

It is seen in many rock-cut temples as at Eillora, where the remarkable Kylas' is an instance of a temple cut out of the solid rock complete, not only with respect to its interior (as in the case of more caves) but also as to its exterior It is as it were a life-size model of a complete It is as it were a newsian moder of a company building or group of buildings several hundred feet in length not built but sculptured in solid stone an undertaking of vast and, to our modern ideas unprofitable industry. The Pageda of fanjore the temples at Seringham. Pagoda of radjore the temples at community.

Chidambaram Vollore Vijayanagar ate and
the palaces at Madura and Tanjore are among
the best known examples of the style

The writer finds some difficulty in following Ferrusson s two next divisions of classification the Chalukvan of South-emtral India, and the Northern or Indo-Aryan style."

The differences and the similarities are apparently so intermixed and confusing that he is fain to fall back on the broad generic title of Hindu -how ver unscientific he may thereby stand confessed Amongst a vast number of Hindu temples the following may be near three as particularly worthy of study —Those at Makkewara and Bhuvaneswar in Orissa, at Khajuraho Bindrabun Udalpur, Benares Gwallor &c The palace of the Hindu Raja Man Singh at Gwallor is one of the most beauti

# man singh at evaluor is one of the most beauti ful architectural examples in India So also are the palaces of Amber Datiya, Urcha Dig and Ldaipur Indo-Saracenic

Among all the periods and styles in India the characteristics of none are more easily recognizable than those of what is generally called the Indo Saraccule which deve-loped after the lightwinedam conquest Under the new influences now brought to bear on it the architecture of India took on a fresh leave of activity and underwent remarkable modifi-cations. The dome not entirely an unknown cations The dome not entirely an unknown feature hitherto became a special object of development while the arch, at no time a favourite constructional form of the Hindu mosque with its wide spaces to meet the needs of organized congregational sets of worshipwhile the sculptures have a distinct trace of of organized congregational acts of working—freek injurace particularly in the treatment gave opportunities for broad and spacious common assumption amongst some author treatments that had hitherto been to some common amongst some author that is atoms of the time of sculptured representations of the second actions of animate objects in the adorances streamously compacted by others. of other decorative forms. Great ingentity came to be displayed in the use of pattern and of geometrical and tollated ornament. This Moulem trait further turned the attention of the beddens to a greater extent than before to proportion and mass as means of giving beauty mere richness of soulptured surface and the aesthetic and symbolic interest of detail being no longer to be depended on to the second stress. of other decorative forms. Great ingentity same derree.

The art was thus the gainer by the new con ditions. It gained in power and variety much as "Gassic architecture gained under the Romans. But it equally lost sometiting too The Indo-Karaccale is apt to appear cold and hard. The writer was impressed by this on has first view of the Gwallor palace already mentioned. Though a Hindu building that palace has yet much of what might be called the more sophisticated quality of the indo-Saraconic work as well as some similarity of detail. It has being Hindu, a certain amount of sculptured ornament of animated forms and the general effect of roundness richness and interest thereby imported seemed eloquent in suggestion as to what is lacking in so many of the Mahometan buildings.

#### Foreign Influence.

been due to foreign importation. The Gan dharan sculptures with their Greek tendency the development of new forms and modes of treatment to which allusion has been made the similarities to be found between the Maho the smitarnics to be found between the Maho metas buildings of India and those of North Africa and Europe the introduction of the nonant and, above all the historical evidences that exist of the presence in India of Europeans during Mogul times, are cited in support of the theory. On the other hand those of the epposite school hold the foregoing view to be due to the prevailing European preconception that all light and leading must come by way of Europe and the best things in art by way of Greece. To them the Gandharan sculp bare, instead of being the best L the worst in India even because of its Greek tincture.
They into in the trucy adaptatous work next They had to be truly indigenous work neare or pierced lattice-work as in the paint true that and significances not to be seen in the windows of the Sidi Sayyid Musjid. con and significances not to be seen in the Graco-Bactrian sculptures and point to those of Borobudet in Java the work of Buddhist colorist from India wonderfully pre-grad by reason of an immunity from destructive influences given by the insular position as abowing the best examples of the art extant anowing the close samples of the art extant it is probable that a just estimate of the meets of the controversy with respect to sculpture at any rate cannot be formed till time has obliterated some of the differences of taste that exist between Kast and West

To the adherents of the newer school the are gradually discarded in favour of the such undisputed similarities between Indo-Maho- The Bipapur style shows a bold massuline matter and Hindu buildings outweigh those platform Indian and Western Endomana than that is unequalled elevere the indian such especially in the Hight of the dis-similarities between the latter. They admit the attempt to rival the work of the further Northeague produced by the savent of Islam, in this we recognize among other influences.

but contend that the art, though modified, yet remained in its essence what it had always yes remained in its essence what it had aways been, indigenous Indian The minaret the dome the arch they contended though deve-loped under the Moslem influence, were yet so far as their detailed treatment and crafts manship are concerned, rendered in a manner distinctively Indian Fergusson is usually regarded as the leader of the former school while the latter and comparatively recent while the latter and comparatively recent school has at present found an eager champion in Mr E B Havell, whose works, on the subject are recommended for study side by side with those of the former writer Mr Havell practically discards Pergusson s racial method of classification into styles in favour of a chronological review of what he regards to a greater extent than did his famous precursor as being one continuous homogeneous Indian mode of architectural expression though subject to variations from the influences brought to bear upon it and from the varied purposes to which it was applied

#### Afra and Delhi.

Agra and Delhi may be regarded as the principal centres of the Indo Saracoulo style— the former for the renowned Taj Mahal, for Akbar's deserted capital of Fatchpur Bikri There would appear to be a conflict between archaeologists as to the extent of the effect on Indian art produced by torsign influence under the Majorestans. The extreme view on the one hand is to regard all the best of the art as having been due to foreign importation. The Game the development of new forms and the unique Quirb Minar. Two other great been due to foreign importation. The Game the unique Quirb Minar two other great been due to foreign importation. The Game the unique Quirb Minar two other great centres may be mentioned because in each thore supported certain strongly marked indications that differentiated the varieties of the text o of the style there found from the variety seen at Delhi and Agra as well as that of one from that of the other These are Ahmedahad in Gujarat and Bijapur on the Dekhan both in the Bombay Presidency A Ahmedahad with its neighbours Sirkhej and Champanit there seems to be less of a departure from the older Hindu forms, a tendency to adhere to the lintel and bracket rather than to have re the intel and bracket rather than to have re-course to the arch while the dome though constantly employed, was there never deve-loped to its full extent as elsewhere or carried to its logical structural conclusion. The Ahmedahad work is probably most famous for the extraordinary beauty of its stone. [all —

#### Bilepur

The characteristics of the Hijapur variety of the style are equally striking. They are perhaps more distinctively Mahometan than those of the thimedahad buildings in that here the dome is developed to a remarkable degree, indeed the tomb of Mahamud—thewell known Gol Gumbar—he cited as hew ling the greatest space of floor in any building in the world rolled by a single done not even the world rolled by a single done not even here practically discarded in favour of the arch. The Blispur style shews a bold masculine The characteristics of the Bijapur variety

that of the prevaling material the hard un choice of materials available—the local red compromising Dekhan beast. In a similar and white sand-tones combined with access manner the characteristics of the Ahmedabad to marble and other more costly materials maximum into constructions of the Americana was no doubt largely responsible for the many tian are bound up with the nature of the Gujerat easily recognizable characteristics of the architectors, while at Delhi and Agra the free! recture of these centres

#### II MODERN

The modern architectural work of India divides itself sharply into two classes. There is first that of the indigenous Indian Master cases deeming it advisable to style himself builder to be found chiefly in the Native States, particularly those in Rajputans States, particularly those in Rajputans States, particularly those in Rajputans. To the work of the indigenous "masterall those parts of the peninsula wherever Western ideas and methods have most strongly spread their influence chiefly, in the case of architecture, through the medium of the De partment of Public Works. The work of that department has been much animalizated upon as being all that building should not be but, considering it has been produced by men to whom it was admittedly not the metter and who were necessarily contending with lack of expert training on the one hand and with departmental methods on the other it must be conceded that it can shew many notable build ings. Of recent years there has been a tend ency on the part of professional architects to turn their attention to India and a lew of these have even been drafted into the service of Government as the result of a policy initiated in Lord Curson's Vicerovalty. In time therefore, and with the growth of the influence of these men, such of the reproach against the building of the British in India as was just and was not merely thoughtlessly maintained as a corollary to the popular jape against every thing official may gradually be removed I this is so as to Government work progress should be even more assured in the trear atmosphere orbided of official Me Alrady in certain of the greater cities where the trained modern architect has catablished himself in private practice, there are signs that his hillnence is beginning to be feit. He still complains how ever, that the general public of India needs much educating up to a recognition of his value, both in a pecuniary sense and other whee It is also to be observed that the sur glous and the extent to which the alleged wise of the popular idea of the film who will be advent to the effect that though may be gauged by the traveller who is architect an architect might occasionally design

builder public attention has recently been drawn with some prominence and the sug gestion is being pressed that efforts should be directed towards devising means for the preservation of what is pointed out to be a remarkable survival—one of the tew in the world—of living art but which is threat ened with extinction by reason of the spread of Western ideas. The matter has assumed the form of a contriburs y centring round the question of that much discussed project the building of the Government of Indias new capital at Delhi It is urged that this project should be utilized to give an impetus to Indian rather than to Western art Those who plead for the preservation of the art appear for the most part to be adherents of the 'indigenous Indian school of archaelogists aiready men indianana Indian school of archeogram areauv mentioned They have mustered a considerable multiple artistic public followin, not only amongst the artistic public of Ingland and In iis but even within the tovernment services The controversy is however too strictly one of the moment and too purely technical for its merits to be judged. by the general reader or discussed here Ita claim on our attention lies in the fact that it afford an added interest for the tourist who may are good examples of the master build may see from examples of the masser of our crs work in hearly every native town and hazaar in India. The town of Lashkar in Gwallor State may be cited as peculiarly rich in instances of picturesque modern Indian atreet architecture while at Jaipur Udaipur, Benares &c, this class of work may be studied in many different forms both civil and reli-

### Archaeology.

The archeological treasures of India are at ambulation and the whole is enclosed by a masments and (2) inscriptions. No building or sculpture in India with any pretentions to be considered an example of architecture or art can be ascribed to a time earlier than that of Asoka (circs 250 B C) In the pre-Asoka ar chitecture of India, as in that of Burma or I hins at the present day, wood was solely or almost solely employed Even at the close of the 4th solery employed. Even at the coose of the 4th century B C Megasthenes the Greek Ambas sador at the court of Chandragupts, grand father of Asoka, describes Pataliputts, the capital of the Indian monarch as surrounded by a wooden wall plerced with hop-holes for the thickness of the state of t the discharge of arrows If the capital itself was thus defended we can easily infer that the architecture of the period was wooden And long long after stone was introduced the lithic styles continued to be influenced by or copied from, the wooden

Monumental Pillars.—The first class of works that we have to notice are the monu mental pillars known as lets. The oldest are the monolithic columns of Asoka, nearly thirty in number of which ten bear his inscriptions. Of these the Laurya Nandangarh column in the Champaran District Turbut is practically uninjured. The capital of each column like the shaft, was monolithic and comprised three members viz., a Percepolitan bell, abacus and crowning sculpture in the round By far the best capital of Asoka s time was that ex-humed at Sarnath near Benares The four-lions standing back to back on the abacus are carred with extraordinary precision and accuracy Of the post Asokan period one pil lar (B C 150) stands to the north-east of Bes nagar to the Gwahor State another in front of the cave of Karh (A D 70) and a third at Eran in Central Provinces belonging to the 6th Cen tury A D All these are of stone but there is one of iron also It is near the Qutb Minar at Delhi and an interliption on it speaks of its having been erected by a king called Chandra identified with chandragupta II (A D 375 413) of the Gupta dynasty It is wonderful to fair the Hindus at that are torquag a bar

of iron larger than any that have been forged even in Europe to a very late date and not frequently even now Pillars of later style are found all over the country especially in the Madras Presidency No less than twenty exist in the South Kanara District A particularly elegant example faces a Jaina temple at Muda hidri, not far from Managalore

Topes,—Stupus, known as dagabas in Cevion and commonly called Topes in North India, of relics hidden in a chamber often near the base or to mark the scene of notable events in Buddhist or Jama legends Though we know Sendilist of same legends Thongs we snow that the ancient Jainas built supen no specimen of Jaina stepas is now extant. Of those belong ing to the Buddhista, the great Tope of Sanchi in Bhopal, is the most intact and entire of its class. It consists of a low discular drum supporting a legalighted dome of less dismeter, Round the dram is an open passage for circum

The archeological treasures of India are at an unusuon and tre-whole according to the pre-Muhammadan period may roughly be divided into (1) architectural and sculptural monu and out, with elaborate sculptures. The steps. but as Dr Marshall s recent explorations have ognolusively shown the railing and the gate wave were at least 150 and 200 years later res pectively Other famous Buddhist stages that have been found are those of Bharhut between Allahabad and Jubbilport Amravati in the Madras Presidency and Piprahwa on the No-palese frontiar The tope proper at Bharhut has entirely disappeared having been utilized for building villages and what remained of the rail has been removed to the Calcutta Museum The bas reliefs on this rail which contain short inscriptions and thus enable one to identify the scenes sculptured with the Jatakas or Birth Stories of Buddhs give it a unique value. The supa at Amravati also no longer exists, and portions of its rail, which is unsurpassed in point of elaboration and artistic merit, are now in the British and Madras Museums. The stupa at Piprahwa was opened by Mr W C Peppe in 1898 and a steatite or soap-stone reliquary with an inscription on it was unearthed The inscription according to many scholars, speaks of the relics being of Buddha and en shrined by his kinemen the Bakvas And we have thus here one of the stupus that were erect ed over the ashes of Buddha immediately after his demise

> Caves -Of the rock excavations which are one of the wonders of India nine-tenths belong to Western India. The most important groups to Western India. The most important groups of caves are situated in Bhaja Bedsa, Karli Kanheri, Junnar and Nasik in the Bombay Presidency billora and Ajanta in Nizama Dominions Barabar Io milre north of Gaya, and Udayagari and Khandagiri 20 miles from Cuttack in Ons.a The caves belong to the three principal sects into which ancient India was divided viv the Buddhists, Hindus and Jainas The earliest caves so far discovered are those of Barabar Which were excavated by Asoka and his grandson Dasaratha, and dedicated to 4ji vikas a naked teet founded by Makkhali Gosala This refutes the theory that cave architecture was of Buddhist origin. The next car liest caves are those of Bhaja, Pitalkhora and cave No 9 at Ajanta and No 19 at Nash. They have been assigned to 200 B C by Fergusson and Dr Burgess But there is good reason to suppose from Dr Marshalls recent researches and from epigraphic considerations that they are considerably more modern. The Buddhist caves are of two types—the chattens or chapel caves and vittares or monasteries for the residence of monks. The first are with valided roofs and horse-shoe shaped windows over the entrance and have interiors consisting of a nave and side aisles with a small stape at the inner circular end They are thus remarkably similar to Christian basiliess. The second class consist of a ball basilicas. The second class consist of a hall surrounded by a number of cells. In the later scharge there was a sanctum in the centre of the back wall containing a large image of Buddha. Hardly a charge is found without one or more mheres adjoining it Of the Hindu cave tem

ples that at Hiephants near Bombay is perhaps the most frequented. It is dedicated to Biva and is not earlier than the 7th century A D But by far the most renowned cave-temple of the Hindus is that known as Kallasa at Ellora It is on the model of a complete structural temple but carved out of solid rock. It also is dedicated to Sive and was excavated by the Reshtrakuta king, Krishna I, (A D 768) who may still be seen in the paintings in the ceilings of the upper porch of the main shifne Of the Jaina caves the earliest are at Khand Of the Jaina caves the earliest are at Khand girl and Udayagir, those of the mediswal type in Indra Sabha at Ellora and those of the latest period at Ankali N Rask Ti e ceilings of many of those caves were once adorned with freecontinings. Perhaps, the best preserved among these are those at Ajanta, which were erecuted at various periods between J50-350 A D and have chiefted high praise as works of art Contessions that the by Maior Gill but prose and have elected mgn presse as worse or an Copies were first made by Major Gill but most of them perished by fire at the Crystal Palace in 1866. The lost once were again copied by John Griffiths of the Arts School, Bombay half of whose work was similarly destroyed by a fire at South Kensington They were last copied by Mrs Herringham in 1911

Gandhara Monuments -On the north west frontier of India, anciently known as Gandhara are found a class of remains, rumed monasteries and buried supras among which we notice for the first time representations of Buddha and the Buddhist pantheon. The free use of Corinthly an capitala, friexes of nude Erotes bearing a long garland, winged Atlantes without number, and a bost of individual motifs clearly establish the a host of individual motils ricarly establish the influence of Hellenistic art. The mound at Peshawar locally known as Shah ji ke Dheri which was explored in 1909 brought to light several interesting sculptures of this school together with a reliquary casket the most remarkable brouge object of the Gardhara period. The inscription on the casket left no doubt as to the mound being the swar raised over the bones of Buddha by the Indo Scythian king Kanishka They were presented by Lord Mintos Government to the Buddhists. of Burms and are now enshrined at Mandalat To about the same age belong the super at Manikyals in the Punjab opened by Ranjit Binghs French Generals Ventura and Court in 1680 Some of them contained coins of Kantshka

Structural Temples.—Of this class we have one of the earliest examples at Sanchi and another at Tigowa in the Central Provinces in South India we have two more examples out.
Lad Khan and Durga temples at Albole in
Bijapur All these belong to the early Gupta
period and cannot be later than 500 A D - Tho spires of any kind In other respects they are entirely different and already here we mark the beginning of the two styles Indo Aryan and Dravidian whose differences become more and more pronounced from the 7th century on wards more pronounced from the 7th century onwards of significant and the local pronounced are the period of the Besnagar pillar. The pillar lines tend to the perpendicular, and in the Dravidian to the horizontal. The salient was the first to notice the incertision of it. It is because of the former again is the cur records the crecition of this column which was villager steepis, and of the latter the pyramidal at Caruda pillar in homour of the god Vasudova tower. The most notable examples of the first to be found among the temples of Bhu ed as an envoy of king Antialkidas of Taxis.

tancewar in Onesa, Khajarah in Bundeikhand, Osla in Jodhpur, and Dilwara on Mount Abu One of the best known groups in the Dravidian Style is that of the Mamallapuram Baths of Seven Pagodas on the seashore to the south of Madras. They are each hown out of a block of granite and are rather models of temples than rathe. They are the earliest examples of typical Dravidian architecture and belong to the 7th century To the same age has to be sengued the temple of Kalissanath at Conjecterain, and to the following century some of the veram, and to the following century some of the temples at Athole and Pattackal of the Blippur District Bombay Presidency and the mono-lithic temple of kallaya at Ellora referred to above Of the later Dravidian style the great temple at Tanjore and the Srirangam temple of Trichinopoly are the best examples

Intermediate between these two main styles comes the architecture of the Decean called Chalukyan by Fergusson In this style the plan becomes polygonal and star-shaped instead of quadrangular and the high-storeyed spire is converted into a low pyramid in which the bornontal treatment of the Dravidian is combined with the perpendicular of the Indo Aryan Some fine examples of this type exist, at Dambal, Ratthkali Tilliwalli and Hangal in Dharwar Bombay Presidency and at Ittariand Warangal in Nizane Dominions But it is in Mysore among the temples at Hallebid, Belur and bomnathour that the style is found in its full perfection

Inscriptions —We now come to inscriptions, of which numbers have been brought to light in India. They have been engraved on varieties of materials, but principally on stone and copper. The earliest of these are found incised in two distinct kinds of alphabet, known as Brahmi and Kharoshthi The Brahmi was read from left to right, and from it have been evolved all the modern vernacular scripts of ludia. The kharoshthi was written from right to left and was a modified form of an auctemat to left and was a modified form of an accional Aramsic alphabet introduced into the Punjab during the period of the Pomian domination in the 5th century BC it was prevalent up to the 4th century AD and was supplanted by line Brahmi The earliest dateable inscriptions are the celebrated edicts of Asoka One group of these has been engraved on rocks and an other on pillars They have been found from Shahbanganhi 40 miles north-cast of Perhawar tr Kicilya in the Nepai Tarai from Girnar in Kathiawar to Dhauli in Orlesa from Kalsi in the Lower Himalayas to Siddapur in Mysore show ing by the way the vast extent of territory held by him The reference in his Rock Edicts to the five contemporary Greek Princes, Antio period and cannot be later than 500 AD = 110 clus 11 of Syria, Ptolemy Philadelphus, and only common characteristic is flat most without so forth is exceedingly interesting, and fixes spires of any kind. In other respects they are BC 2.9 as the date of his coronation. His Burminiot pillar inscription again, discover ed in Nepal Tarai now settles, beyond all doubt, the birth place of Buddha which was for long disputed. Another notoworthy record is the inscription of the Besnagar pillar. The pillar bad been known for a long time but Dr Marshall was the first to notice the inscription on it. It

Heliodorous is herein called a Biagnada, which were a great building tace. Their style first shows that though a Greek he had become a began to evolve itself during the reign of Akbar shows that though a Greek be had become a Hindu and presumably a Vaishnava Another manus and presumator a variance. Another inscription worth noticing and especially in this connection is that of Cave No 10 at Nauk The donor of this cave, Ushavadata, who calls himself a bake and was thus an Indo Soythian is therein spoken of as having granted three hundred thousand kine and sixteen villages to gods and Brahmans and as having annually fed one hundred thousand Brahmans. Here is another instance of a foreigner having embraced Hinduism Thus for the political, social, eco nomical and religious history of India at the different periods the inscriptions are invaluable records, and are the only light but for which we are forlors and blind

Saraconic Architecture —This begins in India with the 18th century after the per manent occupation of the Muhammadans Their first mosques were constructed of this materials of Hindu and Jama temples, and some mosque called Adhas-dia La phompra at Almer early Pathan architecture of Delhi was massive cany raman architecture of Deini was massive and at the same time was characterised by clasorate richness of ornamentation. The Qutb Minar and tombs of Altamsh and Ala-ddini-Knilh are typical examples. Of the Sharqi-style we have three mosques in Jaimpur with several tombs. At Mandu in the Dhar blate a several tombs. At Mandu in the Dhar State of third form of Saracenic architecture aprung up Muhammadans of Bengal again developed their own style, and Pandus, Maids and Gaur teem with the runs of the huldings of this type, the tent buildings. The most straine of these is would be an open court is here roofed by sixty
three small domes Of the various forms
which the Saracenic architecture assumed says Fergusson, that of Ahmedabad may probably be considered to be the most elegant. It is notable for its carved stone work and the work of the perforated stone windows in Sidi Bayyids mosque, the carved niches of the minars of many other mosques the soulptured Marabs and domed and panelled roots is so exquisite that it will rival anything of the sort executed elsewhere at any period. No other style is so essentially Hindu. In complete con

Their style first in a combination of Hindu and Muhammadan in a combination of Hindu and Runamissani leatures. Noteworthy among the emperorabuldings are the tomb of Humayun, and the palaces at Fatehpur Shirl and Agra Of Jehanglis time his mosque at Lahore and the tumb of Itimad mi-dank are the most typical structure. structures The force and originality of the style gave way under Shah Jahan to a delicate elegance and refinement of detail. And it was during his reign that the most splendid of And It the Moghui tombs the Taj Mahai at Agra the tomb of his wife Mumtax Mahail was constructed the Most Masjid in Agra Fort is another surpassingly pure and elegant monu ment of his time

Archeological Department — As the archeological monuments of India must attract the attention of all intelligent visitors they Archeological would naturally feel degrous to know something of the Archeological Department. The work of this Department is primarily two-fold, con-servation and research and exploration. None and that near the Quit Minar are matance of but spanned to first appear to have been made this kind. The Muhammadan arobitecture by Government in these directions till 1870 when of India varied at different periods and under they established the Archmological Survey of the various dynastics, imperial and local. The India and entrusted it to General (afterwards Sir) Alexander Cuntingham who was also the first Director General of Archeology The next advance was the mitiation of the local Surveys in bombay and Madraa three years after The work of these Surveys, however was rea tricted to autiquatian research and description of monuments and the task of conserving old buildings was left to the fitful efforts of the sand we have here the Jam Maspd Hoshang's; local Governments often without expert gold tomb Jahan Mahall and Hindols Mahall as ance or control. It was only in 1878 that the the most notable instances of the secular and Government of hulin under Lord Lytton awoka esciedastical styles of the Malwa Pathana. The to this deployable condition, and sanctioned a sum of 31 lakha to the repair of monuments in United Provinces and soon after appointed a conservator Valor Cole who did useful work for when are think of are thinling of this crys, one conservation to all of the whole ment of the first many that the flakin mosque Kadam, not end that of the Director General were Rami Maspid, and so forth The Bahman abolished. The first veterates step towards redynasty of Gulbarga and Bidar were also great cognium of fields responsibility in conservation builders and adorned their capitals with importment matters was taken by Lord Curron a Government. who established the seven Archmological Circles tant buildings. The most stilling of these is who established the seven are mesonguest current the great mosque of Gulbargs, which differs that now obtain placed them on a permanent from all mosques in India in having the whole foliang, and united them together under the concentral area covered over so that what in others, the left of a Director General, provision being also would be an open court is here roved by sirty made for subsidiaring local Governments out of three small domes. Of the various forms imperial lands, when recessary. The Ancient Monuments Preservation Act was passed for the protection of historic monuments and relica especially in private possession and also for State control over the excavation of ancient sites and traffic in antiquities. Under the direction of Dr J H Marshall Clm., Director General of Dr J H Manman (1 m., Director veneras or Archeology a compreheners and systematic campaign of repair has been prosecuted, and the result of it is manifest in the present attered conditions of old buildings One bas only to see for example the Moghul buildings at Agra, Delhi Labore and Ajmer, in order to style is so essentially Hindu. In complete con trast with this was the form of architecture comployed by the Adil Shahl dynasty of Bijs to convinced how the work of careful reconstruction and repair has converted these decayed and Billada torms or details. The principal buildings to make the Bijapur are the Jami Masjid, Capus Mahall, Mintar Rinhell, Ibratian Bauss and mospens and the Gol Gumbas. Like their has been the recurs of many of these buildings predecessors, the Pathans of Delhi, the Reginus

knows that the superb Pearl Mosque of Jahangir research work been in any way neglected in the Lahere Fort contained a Government treature of the Seeping Hall of Shah Jahan served under the new order of things. A unique feature of it for the first time introduced on as Church for the British troops. At Big under the guidance and advice of Dr. Mar shall has been the scientific excavation of buried sury and the Sleeping Ball of Shah Jahan served as a Church for the British troops At Bia pur two inosques have been recovered, one or which was used as Dak Bungalow and the other as Post Office The local Kutcherry has now been expelled from the lovely music of Bidl died. Sabeth Mahneth the ancient Srasvasti Sayyid at Ahmedabad. The Cave templee at Taxila or Takahadia, the seat of the ancient Trichinopoly are no longer godowns. Nor has Himdu University and so forth.

sites such as Sarnath where Buddha preached his first sermon Kasia or Lusinara where he

### Indian Art.

Within the last few years there has been a most interesting and promising, though some what narrowly comined revival in Indian Art Por this, it is to be feared seant credit to British educational policy in India, though the impetue has come mainly from a few British and other huropean enthusiasts who have reminded outcured India of the value of its arrivable artists, before some product at the reminded cultured India of the value of its audient artistic horitage and indicated the possibilities of revival. Each year between 6 000 and 7 000 students pass the various examinations of the four Schools of Arts mun tained by the State but until very recently those institutions have been in some respects periously mistaken in ideal and method. View ing their work over half a century it may be and broadly that they have paid very hade quate attention to the traditions of Indian Art and that in consciously or unconsciously are and class in consciously or unconsciously encouraging Western influences which the Indian stadent could not thoroughly assimi late, they have not even been particular to choose good examples of Western art. Nor emones good examples of western are whave the Schools of Arts been altogether free from the taint of commercialism indeed for some years one of them was in effect some thing between an industrial workshop and an emporium for a ling Indian curiosities nicely designed to meet the taste of tourists. In faction to the Schools 't should be added that they have seldom been able to attract into class. The material they have had to work with has been unpromising Further even for students who might attain to conspicuous still, there have been two openings in after life. All this is now changing but the improvement began only some fifteen years ago and it is mainly due to agencies more or less independent of the schools.

perhaps the finest Indian sculpture is to be found in Java, where at Borobudar, in condants of Indian emigrants wrought a long series of might; masterpieces As regards paintings we begin with those at Ajanta, pro-duced at intervals between the first century before Christ and perhaps the seventh century before Chust and perhaps the seventh century of the Chustian era a typical example, in which a mother and her child supplicating Buddha are presented not only with much technical skill but with tendem so of feeling, may be found reproduced in Griffith's book on Ajanta and in hir Havell's Indian Soulpture and Painting Those pacutings are true treaces differing in method from the Italian in little but the use of mechanical as well as chemical combination of colours.

Practically all the work of this time has perished and of the secular art of the period before the Moguls there is scant vestige. With the Moguis for the first time painting becomes trankly secular Whereas a Hindu philo-sophe had kild "down "hat it was acquitous to represent natural objects when the divinito represent status objects when the utilities could be made the artists subjects the Islamic dislike of idolatry naturally conduced to the development of secular painting. These Mogul artists were Persans or others, more or less under the militance of the Persan school. provement began only some fifteen years ago and it is mainly due to agencies more or less independent of the schools.

A Notable Revival.

The revival which has shready produced on notable artist Mr Abanindranath Tagore is the direct outcome of the study of the work of the best periods of Indian art. In order to comprehend it, it is therefore necessary to glance back over the history of art in India with boutpure we are here not particularly the first more than the reign of Jehangir (1635-1623) which would painting reached its highest level, and it is to that period that the Indian painters

Emperor was himself a consummate connois sour, camabir it is recorded, of decriminating neutringly between the work of the artists of the same school Sheni Khan Mansur and Abdul Hassan the chief artists of his time were by him highly honoured the last in fact, owed his training as well as distinctions and rewards to the imperor These and several other painters of the period excelled in por other painters of the period excelled in por trait-ministries, of which happily in conse-quence of the practice of olding up publishes like VSS and only occasionally exhibiting them to view we have many example, in good condition. These artists are markedly su perior to their predecessors influency and grace of line and show that they benefited by the closer observation of natural facts must cated from about 1600 onwards Many of the outline drawings done with lamp black one outsine orawings done with lamp black over a prelim nare shetch faithly earned out with a fine brush dipped in Indian red arc of exquisite quality. It is noteworthy that though in some resets handseape is well ren dered as a mere background, there are no examples in Julian painting of the classic age of pure landscape, here the Indian painter of the state of the to day has to develop an ideal with hardly any suggestion from predecesors. The purl tanical and higoted Auranyzh was naturally hostile to art and by the middle of the eight senth century all the glory had departed from Indian painting though a measure of skill in traditional methods long survived and for a traditional methods long survived and for a time was not unappercuted by Englishmen in India. By the early years of the nineteenth century however inclan painting had in tually ceased to cust At length a painter gross to be much admired by the worst judges among those indians, whose Western education had made them indifferent to indigenous art without giving them any real interest in Ruropean art This man Ravi yarma, depicted Ruropean art this man havi yarms, depicted Indian legends as if he were painting figures in amateur tableaux of Indian art traditions there is not a trace in his work which is thes trical, sentimental and of poor quality tech nically. There have been others who have more successfully assumilated something of Western ideas of art but their work is without interest, except in so far as it exhibits a deulor interest, except in 80 as no n summer a urpose able submissiveness to second rate Western teaching. The movement of to day which arouses high expectations is that in which Mr Abanindranath Tagore is the leader artist member of a Bengali family noted for rulture and cousin of the poet Rabindranath Pagore has made a close and most profitable study of the work of the Mogul and other he applies freshly in his own way. He has imagination a sense of composition a delicate some of colour and much though as yet per the material

of to-day end to-morrow must look for the imps not quite secure, command of the technical best product for all work of theirs which is not resources of his art. Above all he is sincere inspired by Hindu philosophy or religion. The nowhere is there in his work any deliberate exploitation of the fact that he is an Kastern artist who must at all costs exhibit National ism in his painting. One of his pictures re presenting the spirits of the air is matly famous, and his admirable illustrations to Omar Khay am useued by the Studio have found appre custion in England as well as in India Among those more or less associated with this painter, who as Vice-Principal of the Calcutta School of Art, is exercising a strong influence within narrow limits man be mentioned Mr Surendranath Ganguly and Mr Vanda Laft Bose the latter of whom has a vein of true poetic feeling and both of whom work in intelligent but not abject obedience of the old tradition of Indian painting. If there is no fourth name at present to put besides those mentioned there is every reason to believe there soon will be several

#### Modern Interest.

At the present time there is a marked development of interest among educated Indians in arts indigenous to their country, but it must be recognised that there is little real knowledge and taste in the public to which the Indian artist of to-day has to address himself artist of to-day has to address ininself work is esterned rather as proof of Indian capacity than for its strict artistic merits Among those Indians and Europeans who have de voted special attention to the matter their is an unfortunate tendency to exaggerate the value of old Indian art and thus to encourage the behef that the Indian artist of to-day can the behef that the Indian artist of to-day can find no lugher task than the repetition of old and narrow conventions. It is perfectly tru-that we must accept the convention of any art without a priori objections but it by no means follows that one convention is as good as another. The question arises what limits a convention sets on those working within it and it is plain that the conventions of Indian art have compelled the exclusion of a vast amount of the Western pameers best material On the other hand, it should be recognized that his traditions have made it almost im possible for the Indian artist to fall into the common Western error of taking a mere re-presentation of fact to be the aim of art. It must describe that the Indian artist of to-day should revive the old traditions that he should be genuinely Induan but it is not de sirable that he should needlessly cramp him self becau-e certain enthumasta assure that the defects and imitations of classic Indian art are positive ments. The Indian artist has a vast treasure of religious and plu losophacal matter to draw upon for such sub painters of India, but he has seen in the experiment and the Rindu genius amples of their work not something to be and he has the whole range of Indian life to stavishly copied but certain principles which observe and create over again. There is no occasion for an unwise saccticism on the ground that ancient conventions ruled out most of

### Manners and Customs.

Next to the complexion of the people, which sales from fair to black the tourist's attention in India is drawn by their dress and personal decoration. In its simplest form a Hindus dress consists of a piece of eight round the loins. Many an ascetic, who regards dress as a hurury wears nothing more, and he would dispense with even so much if the police allowed him to. The Mahomedan always covers his legs, generally with trousers sometimes with a piece of cloth tied round the waist and reaching to the ankies. Hill men and women who at one times wore a few leaves before and behind and were totally innocent of clothing do not appear to-day within the precincts of civilisation and will not meet the tourists eye Children either absolutely mude or with a piece of metal hanging from the waist in front may be seen in the streets in the most advanced cities, and in the homes of the rich advanced cities, and in the homes of the rich the child Krishna with all the jewels on his person, is nucle in ha picture and images

Drass.—The next stage in the evolution of the Hindu dress brings the loneloth nearly down to the feet. On the Malsbar coast as in Burms, the ends are lett loose in front. In the greater part of India, they are tucked up behind—a fashion which is supposed to befit the warrior or one end is gathered up in folds before and the other tucked up behind. The simplest dress for the trunk is a scarf thrown over the left shoulder or round both the shoulders like a Roman toga. Under this garment is often worn a coat or a shirt. When an Indian appears in his full indigenous dress, he wears a long robe reaching at least down to the calves the sleeves may be wide, or long and sometimes puckered from the wrist to the clows. Before Europeans introduced buttons, a coat was fastened by ribbons and the fashion is mot obsolete. The Malsomedian prefers to button his coat to the left, the Hindu to the right. A shawi is tied round the wait over the long coat, and serves as a best in which one may carry money or a weapon if allowed tree greatest variety is shown in the head dress. More than seventy shapes of caps, hads, and turbans, may be seen in the city of Bombay. In the Punjab and the United Brovinces, in Bengal, in Burma and lu Madras other varieties prevall. Cones and cylinders domes and truncated pyramida, high and low with sides at different angles. Folded brims projecting brims long strips of cloth wound round the head or the cap in all possible ways ingenuity culminating perhaps in the parrot; sheal "of the Marshirs turban—all theso fashions have been evolved by different communities and in different places, so that a trained eye can tell from the head overing whether the sheals from Poona or Dharwar Ahmedabed or Bhavangar.

Fashion Variations.—Fashions often vary with climate and occupation. The Bombay fisherman may wear a short cost and a cap and may carry a watch in his pocket yet, as the must work for long hours in water he would not cover his legs, but suspend only a coloured kerchief from his waist in iron. The Pathan of the cold north west affects lone beggy of the cold north west affects lone beggy

trousers, a tail head-dress befitting his stature and covers his ears with its folds as it to keep off cold. The poorer people in Bengal and Madras do not cover their heads, except whas they work in the sun or must appear respectable. Many well to-do Indians wear European class at the present day, or a compromise between the Indian and European costumes, notably the Indian Christians and Parsis. Most Parsis however have retained their own head dress, and many have not borrowed the European collar and cuffs. The majority of the people do not use shoes those who can afford them wear sandals, altipure and shoes, and a few cover their feet with stockings and boots after the European fastion in public

Women s Costumes.—The usual dress of a woman consists of a long piece of cloth taed round the want with folds in front, and one end brought over the shoulder or the head The folds are sometimes drawn in and tucked up behind. In the greater part of India women wear a bodie on the Malabar coast many do not but merely throw a piece of cloth over the breast. In some communities petitiosats, or drawers or both are worn. Many Mussalman ladies wear gowns and scarfs over them. The sat majority of Mahomedan women are goshe and their dress and persons are hidden by a well when they appear in public a few converts from Hinduism have not borrowed the cuatom. In Northern India Hindu women have generally adopted the Mussalman practice of sections on. In the Dekhan and in Southern India they have not

As a rule the hair is daily oiled, combed, parted in the middle of the bead, niaited and rolled into a chignen, by most women. Among high caste Rindu widows sometimes ahave their heads to imitation of certain ascetics, or monks and nuns. Hindu men do nut, as a rule completely shave their heads, Mahomedams in most cases do. The former generally remove the hair from a part of the head in front, over the temples, and near the neck and grow it in the centre the quantity grown depending upon the fancy of the individual. Nowadays many keep the hair cropped in the European fashion, which is also followed by Parsis and Indian. Christians. Most. Mussalmans grow beards, most Hindus do not, except in Bengal and elsewhere, where the Mahomedan infinence was parsmount in the past? Parsis and Christians follow their individual inclinations. Bindu ascetics known as Sadhus or Bairagis as distinguished from Sanyasis, do not clip their bair, and generally coil the monombed hair of the head into a creat, in imitation of the god.

Hindu women wear more ornaments than others of the corresponding grade in somety. Ornaments bedeek the head, the cars, the nexe, the neck, the arms, wrists, ingers, the waist-mail motherhood is attained, and by some even later—and the loss. Children wear anklets. Each community affects its pesuitar ornaments though imitation is not uncommon Serpents with several heads, and flowers, like the lotts, the rose, and the chompaks, are among the most popular objects of representation in gold or silver

Caste Marka.—Caste marks constitute a mode of paramal decoration pountar to Kindra, especially of the higher castes. The simplest mark is a round spot on the ferchead. It represents prosperity or joy, and is omitted in mounting and on fact-days. It may be red, or yellowish as when it is made with ground sandarlood paste. The worshippers of vishnu draw a vertical line across the spot and as Lakshmi is the goldess of prosperity it is asid to represent her A more claborate mark on the forehead has the shape of U or V generally with the central line, sometimes without it, and represents Vishnus foot. The worshippers of Shiva adopt horizontal lines made with sandalwood paste or sakes. Some Vaishnuan stamp their temples near the corners of the eyes, with figures of Vishnus conch and disc. Other parts of the body are also similarly marked. The material used is a kind of yellowish clay To smear the arms and the chest with sandalwood paste is a favourite kind of toiled, especially in the hot season. Brads of Tust or sacred Basil, and berries o Eudraksha elso struck grants, screeced seasil, and berries o Eudraksha elso struck grants, secretics besides wearing Radraksha respectively. The Lingayats, a Shalva sect suspend from their necks and matted hair smear their bodles with ashes Religious mendicants suspend from their necks and matted hair smear their bodles with ashes Religious of the gods in whose name they beg Strings of cowers may also be seen round their necks figures of the gods in whose name they beg Strings of cowers may also be seen round their necks stated theather.

Hindu women mark their forcheads with a red spot or boxisontal line. High caste widows are forbidden to exhibit this sign of happiness, as also to deck themselves with flowers or consuments. Flowers are worn in the chignon Hindu women smear their faces, arms, and feet sometimes with a paste or turneric, so that they may shine like gold. The choice of the same colour for different purposes cannot always be explained in the same way. The red liquid with which the evil eye is a verted may be a substitute for the blood of the animal slaughtered for the purpose in former times. In many other cases this colour has no such associations. The Muslim deviked affects green, the sixth Akali is found of blue, the Sanvasi adopts crange for his robe, and no reason can be assigned with any degree of certainty

Shiva .—India is a land of temples, mose space and shrines, and the Hindu finds at every term some supernatural power to be appeased Shiva has the leaguest uniber of workingers. He has three eyes, one in his foreibaed, a moon a creecest in his matted hair and at the top of the coil a woman a face representing the river Ganges. His shode is the Mount Kallas in the Himalayas, from which the river takes it is source. Round his neck and about his ears and Himbs are serpents, and he also wears a necktage of skulls. In his hands are several weapons, especially a trideoit, a bow, and a themderbolt, and also a drum which he sounds while fancing for he is very fond of this axer rise. He atts on a tiger's skin, and his vehicle as white build. His wife Parvati and his vehicle as a white build. His wife Parvati and his son lanests sit on his thighs. An exeteric in an

ing is attached to every part of his physical personality. The three eyes denote an issight into the past, present and future the snoon, the serpents, and the study denote month, years and cycles for Shiva is a personification of Time the great destroyer. He is also westlipped as a Linga or phalius which represents creative energy.

Gampat —Gancali or Ganpati the controller of all powers of evil ambject to Shiva, is worshipped by all sects throughout India. Every undertaking is begun with a prayer to him. He has the head of an elephant, a large addomen, serpents about his walst and wrists, several weapons in his hands, and a ploce of his track in one hand. He is said to have broken it off when he wanted to attack the moon for reducing him. The different parts of his body are also esoterically explained. His vehicle is a rat.

Parvail—Parvail, the female energy of Shiva, is worshipped under various names and forms. She is at the head of all female super natural powers, many of whom are her own manifestations. Some are benign and beau tiful others terrible and ugly. Kall the tutellary delty of Kallight or Calcutta, is one of the fieres manifestations. In this form she is black a tongue smeared with blood projects from her gaping mouth besides her weapons, she carries corpses in her hands, and round her neck are skulls. Bombay slao take, its nature from a goodess, Kunbadevi Gouri, to whom offerings are made in Indian homes at an annual festival is benign. On the other hand the epidemic diseases like the plague and small pox are caused by certain goddesses or mothers.

Vishru, the second member of the Hindu tritity is the most popular deity next to Shiva. He is worshipped through his several incarnations as well as his original personality. His home is the occan of milk, where he reclines on the coils of a huge, many headed serpoint. At his feet site Lakshunt shampooning his logs. From his navel issues a lotus, on which is seated Brahms the third member of the trinity. In his hands are the conch, which he blows on the national seatest of his commiss are severed. Round his neck are gariands of leaves and flowers, and on his breast are shining lewers. As Shiva represents destruction, Vishnu represents protection, and his son is the good of love. To carry on the work of protection, he incarnates himself from time to time, and more temples are dedicated nowadays to his most popular incarnations, Rama and Krishna, than to his original per sonality. Rama is a human figure, with a low it, to oce of his hands. He is always accompanied by his wife Sits, often by his brother Lakshiman, and at his fact or standing before him with joined hands, is Hanuman, the mostey chieffain, who assisted him in his expedition against Ravana the abductor of his wife Krishna is also a human figure, generally represented as playing or a flute, with which he charmed the damsets of his city esoterically explained to mean his devotees.

Brahma is seldom worshipped only a couple of temples dedicated to him have yet been discovered in all ludia.

Minor Detitios —The minor gods and god demos and the defided heroes and heroines who fill the Hindu pantheon, and to whom shrines are sreeted and worsh p is offered, constitute a legion. Many of them enjoy a local reputation, are unknown to sacred literature, and are worshipped chiefly by the lower classes. Some of them, though not mentioned in ancient literature, are celebrated in the works of modern salvits.

The Jains in their temples, adore the sacred personages who founded and developed their sect, and venerate some of the detides common to Hinduism But their view of Divinity is different from the Hindu conception, and in the opinion of Hindu theologians they are atheists So size the Buddhists of Burma pay almost the same veneration to Prince Siddharths as if he was a god, and indeed elevate him above the Hindu gods, but from the Hindu standpoint they are also atheists.

Images —Besdes invisible powers and deighed persons, the Hindus venerate certain animals, trees and inanimate objects This veneration must have originated in gratitude, fear wonder and belief in spirits as the cause of all good or harm. Some of the animals are vehicles of ortrain goods and gooddesse—the eagle of Vishun the swan of Brahma threacts. As a support of Brahma the monky of Rama one serpent uphodds the earth, an other makes Vishun a bed elephants support the ends of the universe, besides one such animal being ludras vehicle the goddess. Durgs or Kai rides on a tiger one of Vishun shearantions was partly man and partly loo. The cow is a useful animal bot the Brahman vegetarian her milk is indispensable and he treata her as his mother. So did the Bishi of old, who often subsisted on milk and fruits and roots. To the agriculturist cattle are indispensable. The anake excites fear Stones, on which the image of a serpent is carved, may be

seen under many trees by the readside. The principal trees and plants worshipped are the Sacred Fig or Pipal, the Banyan, the Sacred Rasil the Bliva or Wood Apple the Asoka, and the Asoka. They are in one way or another associated with some defty. The sun, the moon and certain planets are among the heavenly bodies venerated. The ocean and certain great rivers are held sacred. Certain mountains, perhaps because they are the abodes of gods and Rushis are hely. Febbles from the Gandaki and the Narmada, which have curious lines upon them are worshipped in many households and tamples.

Worship — Without going into a temple, one can get a lair idea of image worship by seeing how a serpent-stone is treated under a tree it is washed, smeared with sandal, decorated with flowers food in a vessel is placed before it lamps are waved and the worshipper goes round it and bows down his head, or prostrates himself before the image. In a temple larger bells are used than the small ones that are brought to such a place jewels are placed on the idea and the offerings are on a larger scale. Hole are carried in public procession in palanquins or care. The lower classes sacrifice aniquals before their gods and goddesses.

Domestic Life—Of the daily domestic life of the prople a tourist cannot see much His may see a martiage or funeral procession. In the former he may notice how a tridegroom or bride is decorated the latter may shock him for a Hindu dead body is generally carried on a few pieces of bamboo lashed together a thin cloth is thrown over if and the body is tied to the frame. The Mahomedan bier is more decent and resembles the Christian coffin Some Hindus however carry the dead to the burtal ground in a palanquin with great point The higher castes cremate the dead others bury thom. Burdal is also the custom of the Muslims and the Parsis expose the dead in Towers of Silence.

### **Indian Names**

The personal name of most Hindus denotes a material object, colour or quality an animal, a relationship, or a deity The unednosted man, who cannot correctly pronounce long Sanakrit words, is content to call his child father brother unole, or mother as shed as the case may be This practice survives among the higher chasses as well. Appa Sahebanna Hao Bahaji, Bapu Lai, Bhai Shankar Tatacharya, Jijibhai are namer of dhis description, with honoritio titles added. It is practice in early society the bellef in the re-birth of departed kinamen leat popularity to this practice Nothing could be nore natural than to call a man white, black or red gold or silver germ diamond, ruby pearl, or merely a stone amail or tall, weak or strong a Hon, a nacke, a pairot, er a dog and to name a wamma after a Sower or a crosper Thus, to

white, and so does Arjuna Krishna black Bhima terrible Nakula a mongoose Shunaka a dog Shuka a parrot 'shinga a horn. Among the names prevalent at the present day Hira is a diamond Ratna or Ratna a jewe! Somi or Chinna gold Velli or Bolli in the Dravidian languages, means white metal or aliver Men are often called after the days of the week on which they were born, and hence they bear the names of the seven beavenly bodies one corned When they bear in the assume the names of the Hindu detties, they practically enter upon a new stage of civiliastion. It is doubtful whether the Animists ever venture to assume the names of the dreaded spirits worshipped by them. To pronounce the names of a davil is to invite him to do harm. If the spirits sometimes bear the names of the transe of a few literature or a few literature of a few literature o

High-caste practices.—The high caste High on the other hand, believes that the more often the name of a delity is on his lips, the more ment he carne. Therefore he deliberately names his children after his gods and goddessess, so that he may have the opportunity of pronouncing the boly names as frequently as possible. These are also sonorous and picturesque. Shiva is happy Vishuu is a pervader Govinda is the cowherd Krishna Keshava has fine han. Rama is a delighter Lakahmana is huchy Narayana produced the first living being on the primeral waters camela is the Lord of Shiva's hosty Dinakara is the luminary that makes the day Subrah samya is a brother of Ganesha Sita is a furrow Baitri a ray of light. Tara a star Ragtha prosperity Bukmini is she of godden ornaments. Bhaina of the glowing heart. Shiva and Vishnu has each got at least a thou sund names, and they may be freely drawn supposs and paraphrased in againg one schildren, and the whole Hindu pantheon is as crowded as it is large. When a mother lose several children, she begins to suspect that some evil splirit has conspired against her and in order to make there of spring unattractive to the powers of darkness, she gives them ugty names, such as Ken, rubbish, or Unita, dunghill, or Martoba, the mortal. Women are named after rivers, as Sarasyati Ganga, Bhagirathi, Goda vari, or Kaveri, Just as men are sometimes called after mountain. Mann conneits young men not to choose a wife with such a name, perhaps because a river is an emblem of devices castom if a child is born on a Monday its name must begin with a guitural, or Tuesday with a palatal, or Tuesday with a leabal, on Saturday with a dental

Family names.—When a person rises in importance, he adds to his personal name a family or caste name. It was once the rule that the title Sharma might be added to a framman a name, Varma to a Kehariya a, Gupta to a Valshyas and Dasa to a Shudras. This rule is fairly well observed in the case of the first two titles, but the meaning of the other two has changed. Dasa means a slave or servant, and the proudest Brahman cannot diednin to call himself the servant of some god. Thus, although Kalidas, the famous poet, was a Shudra, Ramadas, the famous poet, was a Shudra, Ramadas, the famous gour of Shvall, was a Brahmin. The Vsich navas have made this fashion of calling one-self a servant of some god exceedingly popular and in Western India high caste Hindus of this sect very commonly add Das to their names. The Brahmans of Southern India add Alyer or Alyangar to their names. The Srahmans of Southern India add Alyer or Alyangar to their names. The Shaking the titles indicative of the Brahmansical profession of studying and teach mittering are among the titles indicative of the Brahmansical profession of studying and teach ing the sacred books. Among warfite classes, like the Rajputs and Shiks, the title Shigh (Ras) has become more popular than the sacrest Varma. The Shidhi Mal, as in Gldwood, shanged into Baya, Rao and Bai was a polifical stite, and is not contined to any caste

Dutt and Mitra, Sen and Guha, enable one to identify the caste of their bearers, because the casts of a family or clan cannot be changed. Shot chief of a guild or a town, becomes Chetty a Vashya title, in Southern India. Mudality and Nayudu, meaning leaders, are titles which were assumed by castes of political importance under native rulers. Nayar and Menon are the titles of important castes in Malabar. Ram, Lai, Nand, Chand, are among the additions made to personal names in Northern India Suffixes like Ji as in Ramji or Jamshedji, the Kanarees Appa, the Telugu Garu, the femining Bai or Devi, are honorite. Prefixes like Babu, Baba Laia, Sodh: Pandit Raja, and the Burmese Manna are also honorife.

Professional names — Family names some-times denote a profession in some cases they might have been conferred by the old rulers. Mehta Kulkarni Desipande, Chimavia, Mahai navis are the names of offices hold in former times One family name may mean a flour seller another a cane-seller and a third a liquor seller. To insert the father's name between one s personal and the family name is a common practice in Western India, It is rare elsewhere. When a family comes from a rare elsewhere. When a family comes from a certain place, the suffix ker or wallah is added to the name of the place and it makes a family surname in Western India. Thus we may have Chiplunkars and Suratwallahs, or without these affixes we may have Bhavnagris, without these sifixes we may have Bhavnagris, Malsbaris and Bilimories, as among Paris. Thus Vasudev Pandurang Chiplunkar would be a Hindu whose personal name is Vasudev Inther's name Pandurang and family name derived from the village of Chiphun, is Chiplunkar In Southern India the village mane precedes the personal name. The evolution of Musalman names follows the same lines as Hindu names. But Musilims have no god or goddesses, and their names are derived from their religious and socials history. These from their religious and secular history These barresque as Hindu appellations. The agno-mens Baksh, Din, Ghulam, Khwaje, Fakir, Kazi Munshi, Shelkh, Syed, Begum, Bibi and Others, as well as honorine additions the Khaja have no gods and goddesses, and their personal names are generally borrowed from their sacred and secular history Their surnames frequently indicate a profession or a place, as in the case of Hindus in Western India. Batti wallah, Readymoney Contractor Saklatwallah, Adenwallah and others like them are tell tale

Conversions.—As a rule, a child is named aoon atter it is born, and in the case of males the appellation is not changed. The higher Hindu castes have a separate ceremony called the name-giving ceremony performed on the twelfth day after birth. When a girl is married in these castes, the husband s family give her a new personal name. When a boy is invested with the sacred thread and is made a twiceborn, his name is not changed, but when a man joins an order of acceptes, his lay mame is dropped, and he assumes a new name. Bo also when a Burman joins an order of means or mans, the key name is supersieded by a Pall name. Christian converts change their original

### Big Game Hunting.

From the earliest times India has been fa more as a land affording ample pastime for the mighty hunter before the Lord. No country not even Airles has afforded a greater variety not even Africa has afforded a greater variety of desirable game. The great oran of India the gart, the buffalo and the yak found upon its northern confines are unequalled by the bovine animals of any land. The big horn and the white goat of the Rocky Mountains are beyond all measure interior to the fine sheep and goats that inhabit the precipitous fastaceas of the Himaleys and the Thecan plains beyond, which though not within the limits of our Eastern Eventual are accessible to succious or the Particle. Empire, are accessible to sportsmen from India.
The tiger has been adjudged by experienced observers to be the greatest and most imposing of felines, to whom even the maned lion must give piace, both as regards beauty size ferocity and offensive armsture nor is the lion unknown in India, though sadly diminished in numbers and in range of habitat. The Indian elephant is perhaps inferior in size though an eleginant is perials interior in size though sti-perior in point of utility to his African con-gener and India possesses four species of bears which find no counterpart in the Dark Conti-nent Africa again, although abounding in a vast variety of antelopes, can show no stag orque to the bara singh, the wamber and the spotted deer whilst among all its tribe of ante-lopes none surpasses the black buck in grace and beauty

Although the quantity of big game in India has decreased considerably during recent years, there is still no lack of sport for those who have there is still no lace of sport for those who have the will to travel far in search of it. The sportsman from Europe, unsequanted with the language and country will find great difficulty in carrying out expeditions in pursuit of big game mises he is provided with suitable in troductions. But with the aid of friends among the officials it is still possible for the keen hunter to obtain good sport, although for the best of it he must remain in India during at least a portion of the hot season of the year It is then that the tigers, which have been wander ing over extensive areas during the cold weather, may be more easily brought to bag, for the image has thinned out, and the great beasts, impattent of thirst have to frequent the vicinity of water which, away from the rivers, is now confined to scanty pools. For hunting the gair or bison, perhaps the early part of the rainy season is best, when the leaves that in dry seather crackle so loudly under too that of the rain. But they also and bufaicos, bears and geopards may well be sought for in the bot weather when the forest, stripped of its leaves, affords them little concealment. The stage which ing over extensive areas during the cold wear them little concealment. The stage which cast their antiers annually must of course be hunted at the proper season the spotted deer hunted at the proper season the spotted deer in the hot weather and other spooles during the fellow Bombay Non-sempted persons the cold season of the year. The great horned game of the Himalaysa, the iber, markher and the fine sheep to be found in the mountain fastnesses and in the trans-Himalaysa, regions must be locked for when the more admits of the presence may be properly and amountain their habitat. Kashmir may well be revisited in Mach, but the passes the wayons, at must be declared before the that lead to the roof of the world, where are

assumes and ords poli are to be found will neces bably not be open before June or July

Hunting grounds are to be found throughout the length and breadth of India. Mysore and Burma produce the finest blace, but these splendid anumals, though strictly preserved, are to be found also in the forests of the Satpura are to be found also in the forests of the Satpura. Hills that paradise of big game the special provided he has suitable introductions and is prepared to work hard should be able to secure specimens of most of the game animals of India. He might well begin in January in the Central Provinces, where he would find black bunk, gaselle, Nilgal, and a variety of small game in the open country and where there should be no difficulty in securing some parthers and sloth bears, sambar, spotted deer and swamp deer In the hills also he will find barking deer and from the country and the securing some parthers and sloth bears, sambar, spotted deer and swamp deer In the hills also he will find barking deer and from the country and the securing some parthers and store the country and where there should be no difficulty in securing some parthers and sloth bears, sambar, spotted deer and swamp deer In the hills also he will find barking deer and from home and the securing some parthers are not uncommon. the films and he will the barrang deer and mu-borned antelope, while tigers are not uncommon, and in remoter parts buildo may be met with About the middle of March the sportsman could About the insulate of march the spotential country go on to Kashmir and find there brown and black bears, iber markhor and shappo or cornal before crossing into Tibet. He might be fortunate enough to come across a stag that had not yet cast its antiers and falling this, he could get his stag on the return lourney towards the get the stag on the resum parties cowards age and of October or in November If he has more time at his disposal, Burms might well be visited for there are found several species not to be obtained in India such as the taine, the browantiered deer and the Malayan bear and elephants and rhinoceros might perhaps be met with but this would probably entail an extension of the tour omsiderably in excess of the twelve months.

It is not advisable to lay down the law as to rille and equipment, but the sportsmen may be recommended not to use small bore rifles for De recommended not to use sheatt ours rines not dangerous game A 450 cordite rifle should suffice for big game, and a smaller bore for antelope and gazelle, while a 12-bore gun will be found most useful for feathered game.

The regulations as to the importation, etc. of arms include in Bombay the following —

A dealer in arms and ammunition intending to import the same into Bombay must first obtain from the Commissioner of Police a license or payment of Rs 10 Arms and ammunition may be sold by dealers to Europeans (excluding Germans, Austrans and Turks, Anglo Indians (Eurasians) Volunteers (not exempt under item 13, Schedule I, Indian Arms Act Rules) title holders etc. in reasonable quantities or in such quantities as Government may lay down, and for the personal use of the pur chaser During the war no dealer can sell

arms or ammunition to any person without a pass to be obtained from the Commissioner of Police Bombay Non-exempted persons may be licensed by the Commissioner of Police

### Routes between India and Europe

The Indian port for the direct journey to sulltage each way are direct in ot seasons of steamers by which the journey to and from the West sas Bombay can be performed as special attender runs from Bombay can be performed where it connects with the Australia where it connects with the Australia where it connects with the Australia where it connects with the Australia way or and to the connects with the Australia and similarly, for the on conty—by sea part of the way and by rail across.

Europe. They are the P & O, the Anchor
Line the City and Hall Line, and the Marittima.

Tallana (Italian Mall S N Co) The Natel line steamers are available for Western passers only the steamers sailing round the Cape on their Hastward voyages. There are other services between Calcutta and the West by steamers between Calcutta and the West by steamers asking round Ceyein and several lines connect Colombo with Europe. Of the latter the Orient the Messageries Maritimes (which also sailed from Bombay at fortsightly intervals before the war) and the Bibby Lines are the chief beaties the P & O The Bibby service extends to Rangoon The new railway between India and Ceylon greatly increases the importance of the Colombo route for Southern India. The shortest time between London and Bombay is 14 days.

salibans each way are direct in other weeks a special ateamer runs from Bombay to Aden where it connects with the Australian Homeward Mail and similarly, for the outward voyage, passengers and baggage and mails are transferred on alternate weeks to a steamer at Aden which proceeds thence direct to Bombay The P & O carry the postal mails The steamers call at Aden Port Said, Mar seilles and Gibraitar Passengers are not usually allowed to land at Aden but there is ordinarily time for them to spend some hours ashore at Port Said and Marselles and a shorter time at Gibraltar Passengers may travel west-ward from Port Said by any of the following methods

By the liner to Marseilles, thence by special P & O express to Boulogne and so by Falkestone to London or

By Liner to Tilbury Dock
The arrangements for the eastward voyage
are similar in reverse order

Decure the changes necessitated by the war passengers could proceed homeward from the regularity of the services

The P & O

The P & O

Steamers run weekly from Bombay and London, leaving Bombay on low suspended Before the changes necessitated by the war

The following are the Ticket rates from Bombay to Europe -

	9mgk Troket						Return Ticket (valid 2 years)			
From Bombay (or Karachi)	1st Sakon		2nd Saloon		1st Saloon		⊥nd Sakoou			
	A	В	ζ	4	 В		В	(	A -	В
	Re	$\mathbf{R}\mathbf{s}$	R.	Re	Вn	Rø	Rэ	R.	Rs	$\mathbf{R}_{8}$
To London by sea	900	810	720	660	<b>∍</b> 70	1 350	1 215	1 0 40	990	85 3
To Marseilles Malta or Glb raltar	840	750	660	650	<b>.4</b> 0	1,260	1 125	990	945	810
To London via Marseilles with ordinary rall ticket	942	852	762	<b>*0</b> 0	610,	1 464	1 329	1,194	1086	950
To Marseilles and returning from London by sea	1	·		1		1 305	1 170	1 035	967-8	832-5
To London via Manseilles and including Special Express (rail and sleeping car ticket)	984	894	804	774	684	1,548	1 413	1,278	1 283	1 008

Free tickets are issued to Karachi passengers by B I E N Co s steamers between Bombay and Karachi for either eastward or westward voyage. The transfer from the B I steamer to the F & O steamer or wise-serse is made in Bombay harbour by saunch, without going ashore. The first saloon inside cabins on the Main sleck of the Mail Steamers are let at a

First Saloon passengers are allowed S owts. of personal Baggage free of Freight Second Seloon passengers and servants 1; owt. each; Children over three and under 12 years of age half there weights, Ayahs and other native servants 1; owt. each free

#### Anchor Line

The Anchor Line steamers run between Bombay and Liverpool and there are ordinarily two steamers each way per month Westward bound steamers call at Maruellès, so that peasongers can leave the ship three if they wash Other calls are at Port Sald and Gibraltar Eastward bound steamers do not call at Marsellies Free tlokets by B I S N Co s steamers are issued to Karachi passengers to and from Bombay The passage rates westward from Bombay are as follows—

	Single	Licket	R turn Ticket (valid 2 years)		
From Bombay (or Karachi)	Saloon	Nativi Servant	8а1оол	Native Servant.	
	Rs	Re	Rs	Rs	
To Marseilles , Liverpool , London overland from Marseilles (1st	ია5 800	245 261	900	d95	
class rail) and returning from Liverpool	θυU	288	942	434	
, New York sut Liverpool and Glasgow	HP7	(3rd rall)	1 433	(3rd rall)	

Some sailings are made homeward rea Genoa fares by this route being Single fare to Genoa is 225 and to Glasgow Be 80%. Passenars are allowed to take free or charge 40 cmb feet of baggage cross being charged at the rate of a shilling per tubic toot. Dogs are carried and the charge for them is Rs 50 per animal—arrang ments must be made with the ships butcher as to reading

The voyage Bombay to Liverpool occupies approximat Jy 30 days Bombay Agents W & A Graham & Co

#### Ellerman's City " & Hall " Lines

The City and Hall Liners sall westward for the most part from Karachi reg Bombay Some ships go direct from one port and others direct from the other They sail to Liverpool and passengers can be booked our Marsellies and Overland sither Eastward or Westward Most of the steamers have both first and second class accommodation Others have one class only Passengers booking their berths in Karachi for steamers sailing from Bombay are transferred immediately on arrival in Bombay to the Ellerman liner if she is sailing the same day otherwise they are landed and at the same time informed as to when the steamer for Europe sails.

Adult 1st class passengers are allowed 3 cwt of luggage free subject to a limit in measurement of 40 feet. Children and European servants travelling first class are allowed half that quantity Children and native servants travelling 2nd class are allowed 60 lbs. Bicycles in crates or cases are specially charged for

Fares from Karachl or Bumbay -

	• 9	ոցև 1 և և	ct	Return Ticket (valid 2 years)			
From Bombay or Karachi	lst Saloon	2nd baloon	Native Servant	1st Saloon	2nd Satoon	Native Servant.	
	Ra	Rs	Rs	Rs	Rs	Rs	
io Marsellies . Liverpool London var Marsellies (with rail) " Marsellies returning from Liverpool	680 1 600 224	420 460 480	248 26 29	833 900 1,083 867	630 675 790 658	376 896 434 885	

#### Robettina

Monthly sailings from Bombay for Catania, Messina, Naples Leghorn and Genos, Messina ordinarily being reached on the 14th day Naples on the 15th and Genos on the 17th The usual baggage allowances are made and baggage is conveyed free by see from Port Said to London.

1		8ingle		Return (valid 2 years)			
FARES FROM BOMBAY	First* Saloon	Second Saloon.	Indian Servant	First • Saloon	Second Salcon.	Indian Bervants	
	Re	Rs	Re T	Rs	Ra	Re	
To Catanta, Messina, Naples, Leghorn, and Genoa	450	8ა0	180	675	5 <b>2</b> 0	277-8	
Do (Protestant Missionary rate) Do (European Hospital Nume) To London via Genoa, Turin Paris	427-8 400	J25	' 	600			
Calais and Dover To London via Genea, Turin Paris	580-8	427	j	896	678	}	
Disppe and Newhaven	546	417		867	659		

\*Rs 50 is changed for berth in a single borth cabin Rs 75 on a return ticket

The Messagories Maritimes and Marittimi Itahana have a joint arrangement by which passengers
taking return tackets may travel one way by one line and back by the other

#### Natal Line.

The steamers make their eastward voyages round South Africa Westward sallings from Bombay to Weymouth usually once a month during the season

Fares, Bombay to Weymouth (25 days) —First class, Rs. 376 to Rs. 420 according to class of steamer and position of berth. Cheap first class tackets are issued for bertha in 2 3- and 4 berth cabins.

### Blbby Line.

Two (in the season, sometimes three) sailings monthly from Rangoon, via Colombo and Marselles, to Liverpool. Fares from Rangoon and Colombo —

	Sir	ugle	Return			
	1et (	Insa.	1st Class, available	1st Class, avail able for 2 years		
	From Rangoon	From Colombo	for 4 months from Rangoon	From Rangoon	From Colombo,	
	Rs.	Rs.	Rs.	Rs.	Rs.	
To Marsellles	675	550	900	1 050	82ప	
To London by see returning from Liverpool	625	576	1 000	1 100	875	
To London by see returning from London	l	}	1,025	<b>1</b> 160	926	
vic Maracilles. To London vic Maracilles	650	625	1.080	1 200	975	
To Marseilles returning from Liverpool by sea		!	950	1 075	850	
To London by sea returning from Marseilles		ļ	960	2,075	650	
	,	}	ı	I	1	

Free Lat class tickets, Teletransmar-Colombo are given to passengers from South India.

Orient Line

Fortnightly sallings (Australian Mall) on Thursdays from Colombo to Port Sald, Naples, Marselles, Plymouth and London Fares from Colombo —

	1st Si	aloon	2nd f	aloon	Native Servants		
From Colombo to	Single	Return 2 yeurs	Single	Return 2 years	Single	Return 2 years	
	Ra	Rs	Rs	Rs	Ra	Rs	
Suez and Port Sald	600 660 780	900 } 990 } 1 170 J	510 600	76ა 900	} <i>2</i> 10	315	
Naples Marselles and Gibraltar	840	990 } 1 080 } 1 260 }	540 630	810 945	} 210	315	
Plymouth sed London	690 750 900	1 035 7 12., 1 350	570 660	855 990	240	360	

Concessions for tickets Talaimannar—Colombo, are given to South India passengers Tickets are issued for native servants.

It used to be possible to obtain cheap passages, eastward or westward, in cargo ("tramp") steamers. These are now next to impossible to scoure, because as the steamers are not licensed to carry passengers, passengers have to sign on as members of the crew and the recent extension of the Employers Liability Act then involves the ship sowners in liability to compensation to them for a variety of causes.

#### Indian Train Service

The distances and railway fares from Bombay to the principal centres of other parts of India are as follow  $\sim$ 

	Miles,	1st Claus		2nd	Class,
		H.s.		R.	<u>.</u>
Delhi, B.B. & Cl Railway, va new Nagda-Muttra direct route	865 (28 hours)	86	4	98	8
Delhi, G L.P Railway via Agra	957 (28 hours)	66	4	83	8
Simla, via Delhi	1 137	103	6	52	11
Calcutta, G.I P from Bombay slo Jubbulpore & Allahabad	1 849	90	1	40	9
Calcutta, G I P from Bombay, see Nagpur	1 223	91	11	45	94
Madraa G I. P from Bombay viz Raicher	794	68	6	84	4
Lahora, sie Deihi	1,203	*	2	47	2

#### THE SUEZ CANAL

The samual report of the Suez Canal Com | for the same period of 1913 The receipts many published in July 1915 states that during | however fell after the outbreak of war but the year the number of ships peaced through the loss occasioned by the dimution of the the Canal was 4 802 the net tunnage for the mercantile traffic was partly compensated by year showing a decrease of 624 889 tons as increased movement of military transports outpared with that of 1913

During the first seven months of 1914 the in 1914, remained practically stationary as traffic through the Canal was in excess of that compared with the preceding year

The reduction of the transit dues to 6 25 from the 1814 was 64 1 and 66 5 respect from the 1815 January 1913 together with the reduction of tonnage had the effect of reducing the gross recipits which amounted in 1914 to 122,248,858 fr as compared with 126,650 384 fr in 1913 and 186 428 831 fr in 1912.

The percentage of British versels and their net tonnage was of reducing the gross recipits which amounted in 1914 to 122,248,858 fr as compared with 126,650 384 fr in 1913 and 186 428 831 fr in 1912.

The percentage of British versels and their net tonnage was of the offer many and 181 and 14 9 in 1912, while the percentage of net tonnage of the other maritime nations using the Canal During the first seven months of 1914 the in 1914 and 1914 restricting extensions using the Canal

Below are shown the 12 principal users in point of tonnage of which six were British, three (in spite of the war) were German, two were Dutch, and one was French Premior place which in 1913 was held by the Filerman Lines is now given to the Peninsular and Oriental and British India combination though actually the fusion between these two companies only took effect in October 1914 ---

Owners		Tonn <b>≅ g</b> e	Vovager
Peninsular and Oriental	12 29 000	2 199 000	460
British India	970 000	j <b></b>	
Ederman Lines —			I
Hall Line	025 000	)	!
City Line	36, <b>0</b> 00	1 389 000	302
Bucknan Lines	341 000	1 338 000	302
Others	56 000	]	
Affred Holt & Co (Ocean and China Mutual)	Í	1 159 000	241
Hanse Line		642 000	108
Nederland Stoom vaart Maatschappij		- 631 000	135
Messageries Maritimes	1	590 00u	163
Botterdam Lloyd	1	584,000	140
Hamburg Amerika	Ì	587 000	120
Cayner, Irvine and Co	1	486 000	140
Norddeutscher Lloyd		424,000	70
P and J Harrison		408 000	82
Orient		888,000	46

Improvement Schemes—It was announced in 1914 that from and after January 1st 1915 the maximum draught of water allowed to ships going through the Sues Canal would be increased by 1st, making it 30tt Roellah

The maximum permissible draught of ships using the Canat was 24 4 feet in 1870 in 1860 ships drawing 25 4 feet could make the passage and during the following 24 years the increase has been at the average rate of about 1 foot every six years, thus bringing the maximum draught authorised to 29 feet.

The scheme of improvement adopted by the Company on the recommendation of the International Consultative (committee of Works the British representatives on which are Six William Matthews and Mr Anthony Lister is a comprehensive one, and the details suggest that it will meet the needs of the big ship.

A 40 feet Channel —The declared policy of the Canal Corpany in regard to the deep using of the Canal is to offer a slightly greater depth of water than that available in ports east of Stuz. It is claimed that with the exception of Sydney there is no eastern port which at low tide has a greater depth of water than that now provided in the Canal throughout the full length of nearly 105 miles. In any case the work in hand should meet the needs of any skip like it to be built for the eastern trade during the next few years.

When the Lanal was opened in 1866 the width was , 2 feet and the depth about 28 feet 2 inches in June, 1913, the width at a depth of 32 feet 8 inches had been increased to a minimum of 147 feet 6 inches over a length of about 28 miles and to a width of 328 feet over a distance of about 29 miles. The latest scheme makes provision for a depth of 40 feet throughout and for a widening up to 190 feet 8 inches in the south section, and the enting of an appropriate number of sidings in the north and central sections, where a minimum width of 147 feet 6 inches is believed to be sufficient for the requirements of the (minediate future

The work of enlarging the capacity of the Canal presents no special difficulty on the engo neering side. A good dead of sand is occasionally driven into the channel at Port Said during storms but a remedy for this will be found in retension of the west breakwater by about 2700 yards at a cost of over £0,000 000. The construction of this extension which has been in hand for the past two years is making satis factory progress. The bues Roads are being adequately dredged in accordance with an agreement between the Egyptian Government and the Company.

The Canal in war time —On October 22 1914, the British Government issued a notification in the following terms to the represen

tatives of foreign maritime Powers in London, and saked them to communicate it to their Governments

Since the outbreak of war certain ships of enemy countries have remained in the Sucz Canal.

Some of these vessels were detained by the Bgyptlan Government on account of hostic acts committed in the Canal some because there was reason to apprehend that they contemplated hostile acts others though perfectly free have refused to leave the Canal in spite of the offer of a free pass, thus discosing their intention to use the ports of the Canal merely as ports of refuge, a measure which is not contemplated by the Suez Canal Convention

Has Majerty a Government do not admit that the Conventional right of free access and use of the Canal enjoyed by merchant vessels implies any right to make use of the Canal and its ports of access for an indefinite time to escape capture, since the obvious result of per notiting any such course must be greatly to occumende and even to block the use of the ports and Canal by other ships, and they are consequently of opicion that the Egyptian Government are fully justified in the steps which they are taking to remote from the Canal all enemy ships which have been long enough in the Canal operation of departing in the ordinary way and that they are putting the conding way and that they are putting the canal and its ports to a use which is inconsistent with the use of the canal in the ordinary way by other shipping

Canal Rates—Speaking at the annual meeting of th P & O Company in December 1915 Lord Inchespe chairman said —

The advance of the Suez Canal Company's receipts had been checked by the war. For 1914 the dyldend had to be reduced by 45 transs per share the elarcholders accepted the reduction uncomplantingity and dues were not in rased. For 1915 the reduced dyldend would again operate and it could only be maintained at the 1914 rate by wiping out the rear re set again to the previous year. For 1916 the outlook was not bright and the Canal company propose do rashes their charge by 50 cratines per ton from April 1 ext. from 8.25 to 6 or frames per ton from April 1 ext. from 8.25 to 6 or frames per ton. This would involve the P and 6 and Brillsh India Companies in a considerably larger expenditure for passing through the tanal If the train decreased further these might have to face another the built tithe trainf did not further decrease or improved as they hoped it might the 675 rate would romain. When normal conditions returned they hoped the Canal Company would be able to revert to the 6.25 rate, and they looked forward to a gradual reduction from that figure to the 5 france which they true tod might be ultimative established.

### Travel in India.

Twenty years ago, a tour in India was possible the ancient Moslem capital of the Province, only to the wealthy, the letsured and those containing fine examples of Mahomedans and who had friends in the country. The cost Jain architecture thence to Abu for the of the Journey was very high, the methods of famous Jain temples of Dilwara and on to transportation were very slow and the fact Ajmere, Jaipur and Agra. The other by the lities for travel were so indifferent that it was a bold man who consigned himself to the mer cles of the country without a sheaf of letters of introduction. Now the mail which in peach time is posted in London on Friday night reaches Bombay in thirteen and a half days, and the passenger can travel by the same route and with the same speed as the mail. A dozen lines have covered the sea route between Europe and India and Ceylon with a plexus of regular services. The Indian Hallways provide fact litter on the trunk lines unsurpassed by the trans-de-lazs of Europe and the Indian hotel has grown into a really confortable caravan eera1

In the touring season which extends from November to March there is the attraction of a perfect elimate. It is never very hot in the North indeed it is really cool it is always flue and fresh and bracing. If there is one country in the world to which that elusive term applies here we have at the season when the tourist arrives the real Indian summer" Then there is its infinite variety India is in no sense a nation and never will be. Its peoples are wide as the Poles asunder each has its own art, its own architecture its own customs and its own civilisation. A certain super ficial resemblance runs through each beneath lies a never-coding variety which age cannot wither nor custom stale

The Grand Tour -People coming to India for the first time so often ask -" Where shall I go "Well wherever else the tourist may go, whatever else he should leave out he should onth nothing on The Grand Tour It is the foodlen custom nowadays to sneer at those who follow the beaten tracks, but the vintor who shams any part of the orthodox journey across India misses what nothing else can repay ay is by far the most convenient point arture, for here—the world end steamers of departure, for here the world end steamers wait, here is one of the finest cities in the British Himpire, and here the traveller can best complete his outst and arrangements Prom Bombay stretch northwards the two great trunk

famous Jain temples of Dilwara and on to Ajmere, Jaipur and Agra The other by the Great Indian Peniasula Railway carries the tourist over the Western Chat's by a superb mountain railway to Gwalior whose rock fortress rises like a giant battleship from the piain and so on to Agra. Of the glories of the Taj Mahal Agra Port and the deserted city of Fatebpur Bird it were supercogatory to speak. Another easy stage leads to Delhi, that amazing collection of cities, dominated by the little Ridge where British valour kept the mutinous hordes at bay and finally drove the mutinous hordes at bay and finally drove them from the city by a feet of arms unsur-passed in history Then from Delhi the East Indian line leads comfortably to Benaros Lucknow and Calcutts with the opportunity of an excursion to Cawnpore if the spirit moves. The great charm of the Grand Tour is that it receals the best that India can show This route has the additional advantage that it fits in with any digressions which the time and purso of the traveller may permit. No one who can spare the time should fall to push northwards from Delhi to Peshawar where notinewates from Denti to resnawar where the flower of the army keeps watch and ward over the Khyber and up the dread Pass to the cyrle where the fort of All Macidd bars the way to all invaders Calcutta is the best starting point for Darjeeling though unfor tunately the magnificent mountain panorama tunately the magnificent moments panorams visible from there is often obscured at this season by mists. Then from Caicutta two siter natives open. A fine service of mail steamers leads to Bureau and one of the unforgetable memories of the East is a voyage down the Irrawaddy from Bhamo or Mandalay to Prome. Irrawaddy from Bhame or Mandalay to Prome. Again either direct from Celcutta or via Burma, is an easy route to Madras and by way of Madura and Trichinopoly, with there peerless Eindu temples back to Bombay, or on through Tutlcorin to Colombo But Indoed the possibilities of expanding this tour are endless Bombay is the best centre for the rook temples of Elephanta Kenheri, Karli, Ellora and Ajanta. Calcutta is only a short distance from Puri the one Indian temple where there Is no caste and porhape the most remarkshibe Hindu temple in the country from Calcutta also start the river steamers sense of India. One the Bombay Baroda From Calcutta also start the river steamers and Contral India Railway, leads through which thread the steamy plains of Bengal and the pleasant garden of Gujarat to Ahmodabad | run to the tea gardens of Assam

### Specimen Tours

A number of specimen town in India are given below. They are taken from one of the publications of Thos. Cook and Son, from whom further information may be obtained. The traveller

will also find he can obtain assistance from the principal Shipping Agents and Railway Companies, or from Messrs. Cox & Co , Messrs. Grindlay & Co and Messrs King & Co

	Ist Cl	136. 	2nd C Ra lat Cl Stean	1), 114
FROM BOMBAY TO CALCUTTA	RJ	L.	Rs.	•
Vra the North-West Provinces to Calculta (including side torp from ( alculta to Darjeeling)	 !			
Tour 1 — From Bombay per B B & C I Railway via Ahmedabad Abu Road (for Mount Abu) Almer Jaipur Delhi Agra, Cawapore Lucknow and Benares to Calcutta, thence to Darjerling and back to Calcutta	210	8	105	5
Four II — From Bombay per G I P Rallway cia Itard Gwaltor, Agra, Delhi Tundia Junction, Cawnpore, Lucknow and Benares to Calcutta, thence to Darjoeling and back to Calcutta	213	9	106	15
FROM BOMBAY TO COLOMBO			<u> </u>	
Visibe North West Provinces Calcutts and Southern India to Colombo (including side trip from Calcutts to Darjeeling).				
Tour III — From Bombay as in Tour Ko I (viz B B & C I Ry Jaipur and the North West Provinces) to Calcutta side trip to Darjeel ing and back to Calcutta thence viz Khurda Road for Puri Jugga nath) Madras Tanjore, Trichinopoly Madura, Danushkodi and Talai mannar to Colombo	320	2	164	14
TOUR IV —From Bombay as in Tour No II (ras G I P Ry Itarsi Agra and the North West Provinces) to Calcutta, side trip to Darjeeling and back to Calcutta, thence as in Tour No III to Colombo (ras Southern India)	4	5	168	8
Veathe Borth-West Provinces Cilcutta (including Darfeeling), Burma and Southern India				
YOUR V From Bombay as in Tour No I (via B B & C I Ry, Jaipur and the North West Provinces) to Calcutta, side trip to Darjeeing and back to Calcutta, thence British India Steamer to Bangoon Rail to Mandalay Irrawaddy Steamer to Prome, Rail to Rangoon British India Steamer to Madras Rail via Tanjore Trichinopoly Madura to Danuskipoli Steamer to Talaimannar and Rail to Colombo		15	364	14
TOUR VIFrom Bombay as in Tour No II (via G I P By Itarsi Agra and the North West Provinces) to Calcutta, thence as in Tour No V to Colombo		2	866	8
FROM BOMBAY TO BANGOON				
Via the North-West Provinces and Calcutta to Rangron (including a tour in Burma also including a side frey from Calcutta to Darfoeling)				
TOUR VII — From Bombay as in Tour No I (vis B B & C I By Jaipus and the North West Provinces) to Calcutta aids kip to Darjeeling and back to Calcutta, thence British India Steamer to Rangoon Rail to Mandalay, Irrawaddy Steamer to Prome, Rail to Rangoon	[]	2	261	۵
TOUR VIII—From Bombay as in Tour II (vis G I P Ry Itansi Agra and the North West Provinces) to Calonita, side trip to Darjeeling and back to Calonita, thence British India Steamer to Rangoon. Rai to Mandalay, Irrawaddy Steamer to Prome, Ball to Bangoon		5	269	2 10

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<del></del>	1st CI	ans.	and C Rai 1st C Steam	li, Lam
FROM CALCUTTA TO BOMBAY	Rs	٤.	Rs	٨.
Via the North West Provinces	İ			
TORR IX — From Calcutta via Benares Lucknow Cawnpore Tundia, Agra Delha Bewari Jaipur Ajmer (for Udaipur) Abu Road (for Mt. Abu) Ahmedahad and Baroda to Bombay TOUR X—From Calcutta via Benares Moghal Berai Cawnpore Tundia,	148	1	71	10
Agra, Delhi Rewari Jaipur Ajmer (tor Udalpur) Abu Road (for Mt Abu) Ahmedabad and Baroda to Bombay	133	14	67	0
Tour XI — From Calcutta via Benares Moghal Serai Cawnpore Tundla Agra, Gwallor and Itara to Bombay	118	3	59	2
Town XII From Calcutta viz Benarcs, Moghal Serai Cawnpore Delhi Muttra, Agra, Gwallor and Itarai to Bombay	193	8	66	14
CIRCULAR TOUR FROM CALCUTTA	ļ		ļ	
Tour XiII — From Calentta rig Benares Lucknow Cawapore Tundia Agra, Bandikul Jaipur Delhi and Allahabad to Calentta	167	7	83	13
Extensions Via Southern India to Colombo	ļ		1	
Tour XIV—From Bombsy viz Poons, Hyderabad Wadi Raichur Madras, Tanjore, Trichinopoly Madura Danushkodi and Talai mannar to Colombo Tour XV—From Bombay via Poona Hyderabad, Wadi Guntakal Bangalore Erode, Trichinopoly, Madura Danushkodi and Talai	130	•	{	10
mannar to Colombo	322	•	1 00	
Extensions to above Tours	ļ			_
From Almer to Udalpur and return  From Abu Road to Mount Abu and return one seat in Tonga (This excur	31	5	15	10
sion is strongly recommended the scenery being very beautiful)  From Delhi to Lahore and return via Umballa and Amritsar		0 13	20	15
From Delbi via Bhatinda Ferozepore to Lahore returning via Amritsa. Umballa to Delbi	41	13		15
From Calcutta to Darjeeling and return (14 days)	67	5 0		11 0
From Colombo to Kandy and return From Kurda Road to Puri (Jagganath and return)	5			10

(All fares subject to change without previous notice)

### **An Indian Glossary**

ABRARI —Excise of liquors and drugs

AIN —A timber tree, TERMINALIA TOMENTOSA

AIR I ARBARI —A comprehensive account of India under the Mughal Emperor Akbar, (compiled in 1590 by Abul Pazl)

ANIL.—A subordinate executive official un der native rule in Sind the name is still applied to Hindus of the electral class

ARROTY —A dam or weir across a river for trigation purposes Southern India.

Aus.—The early rice crop, Bengal syn Abu, Aman.

AVATAR -- An Incurnation of Viebnu

BABUL—A common thomy tree, the bark of which is used for tanning, ACACIA ARABICA BACHER.—A native boat (Buggalow)

BAFRAGI —A Hindu religious mendicant

BAJEA.—The bulrush millet a common food-grain, PERKISHTUN TYPHOIDEUM syn cambu, Madras

BAND —A dam or embankment (Bund)
BANDE.—A dam (Bund.)

BANYAR -A species of fig tree, Figus in Dica

Basti —(1) A village or collection of huts, (2) A Jain temple, Kanara.

BATTA -Lit discount, and hence allow ances by way of compensation

Basar -(1) A street lined with shops, India proper (2) a covered market Burma

BES -A thorny shrub bearing a trult like a

small plum ZEYPHUB JUJUBA.

BEWAR—Name in Central Provinces for shifting outsivation in jungles and hill-sides syn tamngys, Burms fum North Eastern

BHADOI - Early autumn crop, Northern India

BHANG -The dried leaves of the hemp plant, CANTABLE SATIVA, a narcotic

BHANWAR -Light sandy soil syn bhur

BHARAL —A Himalayan wild sheep, Ovis

BRUSA .- Chaff for fodder

BIDH —A class of ornamental metalwork in which blackened pewter is inlaid with silver named from the town of Bidar Hyderabad

BIGHA —A measure of land varying widely the standard bigha is generally five-eighths of an acre

BLACK CONTON SOIL—A dark coloured soil, very retentive of moisture found in Central and Southern India

BOARD OF REVEYOR—The chief controlling revenue authority in Bengal the United Provinces and Madras.

Bog.—A thorny tree producing a fruit like a small plum Zurraus Jujuba

BRINJAL — A vegetable, SOLANUM MELON GENA syn egg plant

BUNDER, or bander —A harbour or port.

Candan —Palm leaves used for thatch

Chabutra — A platform of mud or plaster ed brick used for social gathering. Northern India.

CHADAR.—A sheet worn as a shawl by men and sometimes by women (Chudder)

CHAITTA.—An ancient Buddhist chapel

CHAMPAK -A tree with fragrant blossoms, MICHELIA CHAMPACA

CHAPATI — A cake of unleavened bread (Chapatil)

Chipman —An orderly or messenger Northern India syn. pattawala, Bombay peon Madras.

CHARAS.—The resin of the hemp plant CARRABIS SATIVA used for smoking

CHAUDERI —Under native rule a subordinate revenue official at present the term is applied to the headman or representative of a trade guild

CHAURIDAR -- The village watchman and

rural policeman

\*\*Chauth\*\*—The fourth part of the land revenue, exacted by the Marathas in subject term.

tories.

OHRLA—A pupil usually in connexion with religious teaching.

OMELON: A collection of thatched huts or barracks, hence a cantonment.

CHHATRI —A dome or cupols hence a domed building such as a cenotaph.

CRIEF COMMISSIOVER.—The administrative head of one of the leaser Provinces in British India

CHIROR.—A kind of partridge, CACCARIS CHUCAR.

Chinar.—A plane tree, Platanus orien talis.

CHURARA - The Indian gazelle Gazum.

CHITAL -The spotted deer CERVUS AXIS.

CHOLAN —Name in Southern India for the large millet, ANDROPOSON SORGHUM syn jowar

CHOLI —A kind of short bodies worn by

CHUKAM chuna - Lime plaster

CIRCLE—The area in charge of—(1) A Conservator of forests (2) A Postinaster or Deputy Postinaster General (3) A Superintending Engineer of the Public Works Department

CIVIL SURGEON -- The officer in medical charge of a District

COUNTABLE —An offence for which the culprit can be arrested by the police without a warrant

COLLECTOR —The administrative head of a District in Regulation Provinces corresponding to the Deputy Commissioner in non regulation areas

Areas

COMMISS ONEE.—(1) The officer in charge
of a Division or group of Districts (2) the
head of various departments, such 65 Stamps,
Excise etc.

CONSERVATOR —The Supervising Officer in charge of a Circle in the Forest Department

COUNCIL BIJIS—Bills or telegraphic transfers drawn on the Indian Government by the Secretary of State in Council

COUNT —Cotton yarns are described as 20's, 30's etc counts when not more than a like number of hanks of 840 yards go to the pound avoirdupois

COURT OF WARDS—An establishment for managing estables of minors and other disquall fled persons

CROW karer -Ten millions

DACOUT, DAKAIT —A member of a gang of robbets.

DAFFADAR.—A non-commissioned native officer in the army or police

DAH OR DAO —A cutting instrument with no point, used as a sword and also as an axe Assam and Burma

DARAITI DAGGITY -- Hobbery by five or more persons

DAL -A generic term applied to various pulses

Daw - An old copper coin, one fortieth of a rupee

DARBAR. (1)—A ceremonial assembly especially one provided over by the Ruler of a State hence (2) the Government of a Native State

DARGAE.—A Mahomedan shripe or tomb of a seget,

DARI Dhurrle—A rag or carpet, usually of cotton, but sometimes of wool.

Danosus —The title of officials in various departments now sepecially applied to subordinate controlling Officers in the Police and sail Departments.

DARWAR -A door-keeper

DARWALL.-A gateway

DESCTIAL—Land assigned for the upkeep of temples or maintenance of Hindu worship.

DEODAR.—A cedar CEDEUS LIPARI OF C

DEPUTY COVML-SIGNEE—The Administrative head of a District in non-regulation areas corresponding to the Collector in Regulation Provinces

DEPUTE MASSTRATE AND COLLEGIOR—A subordinate of the Collector having executive and judicial (revenue and criminal) powers equivalent to Extra Assistant Commissioner in non regulation area.

Dran — A revenue official under native (Maratha) rule.

DESH —(1) Native country (2) the plains as opposed to the hills Northern India (3) the plateau of the Deccan above the Ghats.

DESIMUH —A petty official under native Maratha ) rule.

DEVA .-- A deity

DRAK —A tree BUYBA FRONDOSA with brill lant salmon-coloured flowers used for dyeing and also producing a gum syn. palas Bengal Chilmi Central India.

DRAMSALA.—A charitable institution provided as a resting-place for pilgrims or travellers and till Northern India

PHATURA.—A stupefying drug DATURA PARTUGA.

DEFECT.—Name in Northern India for the byer used in raising water—syn picottah

DROTL—The loincioth worn by men
District —The most important administrative unit of area

DIVINOR.—(1) A group of districts for ad ministrative and revenue purposes under a commissioner (2) the area in charge of a Deputy Conservator of Forests, usually corresponding with a (revenue) District (3) the area under a Superintendent of Post Offices (4) a group of (revenue) districts under an Executive Haginger of the Public Works Department.

Drwan -The chief minister in a Native

Diwam —Civil, especially revenue administration now used generally in Northern India of civil justice and Courts.

DOAR —The tract between two rivers, capecially that between the Ganges and Jumps.

DRY GROP —A crop grown without artificial infigation.

DRY RATE.—The rate of revenue for unirri-

DUN -A valley Northern India.

BEXA.—A small two-whoeled correspondents was by a puny, Northern India.

BITTA ASSISTANT COMMISSIONER—See De Puty Magistrate and Collector

FAMILE INSURANCE CHART—An annual provision from revenue to meet direct famine expenditure or the cost of certain classes of public works, or to avoid debt.

FARMAN —An imperial (Mughal) order or grant

FAUJDARI —Under native rule, the area under a Faujdar or subordinate governor, now used generally of Magistrates Criminal Courts.

FINARCIAL COMMISSIONER.—The chief controlling revenue authority in the Punjab Burma and the Central Provinces

GADDI Gadi -The cushion or throne of (Hindu) royalty

Gamia — The unfertifised flowers of the cultivated female hemp plant, CANKABIS SATIVA used for smoking

GAUR — Wild cattle, commonly called bison , BOS GAURUS

GAYAL —A species of wild cattle Bos Fron TALLS domesticated on the North East Fron tier, syn. mithan

GHAT Ghaut (1) A landing place on a river (2) the bathing steps on the bank of a tank (3) a pass up a mountain (4) in European usage, a mountain range In the last sense especially applied to the Eastern and Western Ghats

GHATWAL —A tenure holder who originally held his land on the condition of guarding the neighbouring hill passes (ghats) Bengal

GHI Chee - Clarified butter

GINGRILY -An olbood BESAMUM INDIGUM avn til

DATURA | GOPURAY —A gateway especially applied to the great temple gateways in Southern India.

GORAT -Light alluvial soil Gujarat

GOSAIN GOSWAMI —A (Bindu) devotee 110 one who restrains his passions

GOSHA —Kame in Southern India for caste 'women lit one who sits in a corner syn. pards.

GRAM —A kind of pea CICER ARISTINUM In Bouthern India the pulse Dolichos Burlogue is known as horse gram

GUARANTEED -(1) A class of Native States in Central India , (2) A class of railways.

Gua, Goor —Crude sugar syn jaggery south em India tanyet Burma.

GURAL.—A Himalayan goat antelope, Creas

GURU ---(1) A Hindu religious precepter (2) a schoolmaster Bengal

HAKIN.—A native doctor practising the Mahomedan system of medicine.

HALALEHOR.—A sweeper or scavenger Ht one to whom everything is lawful food."

HALI -- Current Applied to coin of Native States, especially Hyderabad

Hillar—A kind of fish, Clurus Histor.
Hill.—An iron pinnacie placed on a pageda
in Burner.

MUKKA...-The Indian tobacco pipe, incorrectly apelt booksh

IDEAH —An enclosed place outside a town where Mahomedan services are held on festivals known as the Id., etc.

IDAM -- Lit reward Hence land held revenue free or at a reduced rate, often subject to service.

INUNDATION CANAL —A channel taken off from a river at a comparatively high level which conveys water only when the river is in flood

JAGGERY jagri -- Name in Southern India for crude sugar syn gur

JAGIE —An assignment of land or of the revenue of land held by a Jagirdar

Junabar. -- A native officer in the army or police.

Juli.—A natural lake or swamp Northern India syn. bil, Eastern Bengal and Assam

JIHAD —A religious war undertaken by Musel mans.

JIEGA.—A council of tribal elders, North West frontier

JOWAR.—The large millet a very common food grain Andropogon Sorahuw or Sorahuw volcars syn. cholam and jola, in Sputh orn India.

JUDICIAL COMMISSIONER—An officer exercising the functions of a High Court in the Central Provinces, Oudb and Sind

KAGERER, kachahrt —An office or office building, especially that of a Government official

KANAR.—The barking deer CERVULUS MUST

KALAR, kaller—Barren land covered with salt or alkaline efforescences Northern India KAMARRAND Commerciand—A waistcloth, or

RAMARBAND Cummerband —A waistcloth, or belt

KARGAR—A kind of portable warming pan carried by persons in Kashmir to keep them selves warm.

KANKAR.—Nodular limestone used for metal ling roads, as building stones or for preparation of lime.

KARS—A coarse glass which spreads and prevents cultivation especially in Bundelshand, HACKERUM SPONTANEUM.

KARUNGO — A revenue Inspector

KARAIT —A VETY VEROMOUS STAKE, BUNGARUS CAMDIDUS OF CAMBULEUS.

KARRHARI -- A manager

KARES — Underground tunnels near the skirts of hills, by which water is gradually led to the surface for irrigation, especially in Beluchistan

KARKUM -A clerk or writer, Bombay

KARRA.—The doctrine that existence is conditioned by the sum of the good and evil actions in past existences.

KARNAN A village accountant, Madras syn. patwart.

KAN—Under native rais, a judge admi natering Mahamedan law Under British rais, the East registers marriages between Mahamedans and performs other tametions, but has no powers conferred by Isw KHALASI —A pative firemen mailor, artilleryman or tent-pitcher

KRAIAA—Tit. pure.' (1) Applied especially to themselves by the Sikhs, the word Khaka being equivalent to the Sikh community (2) land directly under Covernment as opposed to land allensted to grantees etc., Northern India

KHARAB -A gravelly poor soil, Bombay

KHARF —The harvest reaped in late autumn KHAR —Special in Government hands. Khas tahasildar, the manager of a Govern ment estate.

KHARADAR.—Local levies of foot moldlers, Afghanistan.

KH48-KH48, Kus Kus —A grass with scented roots used for making screens which are placed in doorways and kept wet to cool a house by evaporation ANDROPOGOS MURICATUS.

KHEDDA kheda—A stockede into which wild elephants are driven also applied to the operations for catching

KHILAT -A robe of honour

KHUTBA.—The weekly prayer for Mahomedans in general and for the reigning sovereign in particular

Kinoon kamkhwab —Siik textiles broomd ed with gold or silver

Kudali —The implement like a toe or mattock in common use for digging synmamut! Southern India

Kos—A variable measure of distance, usually estimated at about two miles The distance between the kos-minars or milestones on the Mughal Imperial mads averages a little over 2 miles, 4 furlongs 150 yards.

Korni -A large house

KOTWAL—The head of the police in a town, under native rule. The term is still used in Hyderabad and other parts of India.

KOTWALL.—The chief police station in a head-quarters town

Kulkarni — A village accountant, Bombay, Descan syn patwari

KYAUNG --- A Buddhist monastery, which always contains a school, Burma.

LAKE lac .- A hundred thousand.

LAMBARDAR.—The representative of the cosharers in a ramindari village, Northern India. LAMBUR—A large monkey Sempopitheous

entellus.

LAYRITE—A monumental pillar LAYRITE—A vectoriar material formed of disintegrated rock used for buildings and making roads also probably valuable for the production of aluminium.

LINGLE.—The phallic emblem, worshipped as the representative of Shiva.

LONGYI -A waistcioth, Burma.

LOTA.-A small brass water-pot.

LURGI, koongi—(1) A turban (2) a cloth worn by women

Manualla.—A school especially one for the higher instruction of Mahomoteus.

MANAJAR .-- A native merchant or benion.

MAHAL—(1) formerly a considerable tract of country (2) now a village or part of a village for which a separate agreement is taken for the payment of land revenue (3) a department of reverue, og right to catch elephants, or to take stone

MAHALKARI —A subordinate revenue official Bombay

MAHAET —The head of a Hindu conventual establishment.

MAHARAJA.—A title borne by Hindus, ranking above Raja

MARSER, mahasir—A large carp, BARHUS TOR (iit the big headed )

MARUA.—A tree Bassa Lattwolta, producing flowers used (when dried) as food or for distilling liquor and seeds which furnish

MAIDAN -An open space of level ground the park at Calcutta

Major works —Irrigation works for which separate accounts are kept of capital revenue and interest

MARTAB -An elementary Mahomedan school

MALGULAR (revenue payer) --(1) The term applied in the Central Provinces to a co-sharer in a village held in ordinary proprietary tenure (2) a cultivator in the Chamba State

MANUATORS -- The officer in charge of a talvia. Bombay whose duties are both executive and magisterial syn tahasildar

MANDAP or mandapam.—A porch or pill lared ball especially of a temple

MARKHOR.—A wild goat in North Western India, Capha Palcoweri

Mastin —A mosque. Jama Masjid, the principal mosque in a town where worthippers collect on Fridays.

MASNAD —Seat of state or throne Mahomedan syn. gaddi

MATH —A Hindu shrine or conventual cetablishment

MAULY: —A person learned in Muhammadan

MAYA .- Sanskrit term for defusion

MELA.—A religious festival or fair

MIERAS -- The niche in the centre of the western wall of a mosque

MINDAR.—Steps in a mosque used as a pulpit MINDAR.—A pillar or tower

MINOR WORKS -- Irrigation works for which regular accounts are not kept except, in some cases, of capital.

MORSOON.—Lit season, but generally applied to the rainy season, or to the regular sensiture-laden current of air prevailing at certain seasons

MUTABLAL, motuseil.—The outlying parts of a District, Province or Presidency, as distinguished from the head-quarters (Sadr).

MUKADDAM, muccadum.—A representative or headman.

MURENAL (computy multiplier).—A class of legal practitioner

MURITIARKAR.—The officer in charge of a taluka, Sind whose duties are both executive and magisterial, syn tahasildar

MUNG mug —A pulse, Phastolus radia rus syn. mag Gujarat.

MUNNIT - Judge of the lowest Court with civil jurisdiction

MURUM moorum -- Gravel used for metalling roads

NACARKHANA, nakkarkhana,—A place where drums are beaten

NAIB -- Assistant or Deputy

NAIK—A leader hence (1) a local chieftain in Southern India (2) a native officer of the lowest rank (corporal) in the Indian army

NAT -4 demon or spirit Burma

NAWAH—A title borne by Mussimans, corresponding roughly to that of Rajs among Hindus

NAMAR, natarana —A due paid on succession or on certain occasions

NET ASSETS—(1) In Northern India, the rent or share of the gross produce of land taken by the landlord (2) in Madras and Lower Burms the difference between the assumed value of the crop and the estimate of its cost of production

NEWAR —Broad type woven across bedsteads instead of iron stats

NGAPI —Pressed fish or salted fish paste largely made and consumed in Burma.

NILGAI — In antelope Bosslapeus Trago Camblus

Nim necm —A tree Malla Azadiraceta the bernes of which are used in dyeing.

NIEAM.—A title borne by the ruler of Hyderabad State Vizamar —A sub-division of a Native State,

corresponding to a British District, chiefly in the Punjab and Bhopal

Non-coorsable — An offence for which the

NON-COGNISABLE —An offence for which the culprit cannot be arrested by the police without a warrant.

Non-occupancy tenants — A class of tenants with few statutory rights except in Oudh beyond the terms in their leases or agreements

NOW REQUIREMENT —A term formerly applied to certain Provinces to show that the regulations of full code of legislation was not in force in them

NULLAH, VALA —A ravine watercourse, or drain

Occupancy Tenants —A class of tenants with special rights in Central Provinces, in United Provinces

PADDY -- Unhusked rice

Paga.—A troop of houses among the Mara thas

PAGI —A tracker of strayed or stolen animals.

PAGAH —A tenure in Hyderabad State.

PAIR —(1) A foot soldier, (2) in Assum former by applied to every free male above sixteen years.

PARKY —A palanquin or litter PAR —The betel vinc, PIPE BETTE.

STUPA or tope.—A Buddhist tumulus, usually of brick or stone, and more or less hemispherical, containing relics.

SURLE.—(1) A province under Mahouedan rule (2) the officer in charge of a large tract in Baroda, corresponding to the Collector of a British District (3) a group of Districts or Division, Ryderabad.

SUBAHDAB.—(1) The governor of a province under Mahomedan rule (2) a native infantry officer in the Indian Army, (3) an official in Hyderabad corresponding to the Commissioner in British territory

SUB-DIVISION —A portion of a District in charge of a junior officer of the Indian Civil Service or a Deputy Collector

SUPERINTENDENT —(1) The chief police officer in a District (2) the official in charge of a hill station (3) the official usually of the Indian Medical Service in charge of a Central Jail

SYCE, sats.—A groom.

Tangil.—A revenue sub-division of a District syn taluka Bombay taluka, Madras and Mysore township Burma.

TARKILDAR.—The officer in charge of a tabell syn. Mamlatdar Bombay township officer or myo-ok, Burma mukhtlarkar Sind vahl vatdar Baroda. His duties are both executive and mandaterial

Takavi.—Loans made to agriculturists for seed, bullocks, or agricultural improvements syn. tagai Bombey

TALAH —A village accountant, Gujarat syn. patwari

TALAY or talso .- A lake or tank.

TALUK, taluka.—The estate of a talukdar in Outh. A revenue sub-division of a District, in Bombay Madras and Mysore syn taball.

TALUNDAR.—A landholder with peculiar tenures in different parts of India. (1) An official in the Hyderabad State, corresponding to the Hagistrate and Collector (First Tark dar) or Deputy Magistrates and Collector (Second and Third Talukdars) (2) a tand holder with a peculiar form of tenure in Gujarat

TANK.—In Southern, Western and Central India, a lake formed by damming up a valley in Northern India, an excavation holding water

Tarai — A moist swampy tract the term is specially applied to the tract along the foot of the Himaluyss.

Taxi, toddy, The sap of the date palmyra, or occount paim, used as a drink, either fresh or after fermestation. In Northern India the jules of the date is called sendhi.

TARAR, tursore — Wild slikworms, ARTHERARA PAPHIA also applied to the cloth made from their slik.

TARIA.—Lath and paper models of the tombs of Hasta and Humin, carried in procession at the Mahartum festival syn. tabut.

TRAK.—A valuable timber tree in Southern and Western ladia and Burms, Thorona charmes.

THERERAPHIC TRANSFERS. -- See Council Mile.

THASH, thusees.—Robbury after strangulation of the victim.

THANUX.—(1) The modern equivalent of the carte name Kahattriya in some parts of Northern India (2) a title of respect applied to Realmans (3) a petty chief (4) a hill tribe in the Western Chata.

THAMIN —The brow authored deer, Burma, CREVUS MLDL

THANA.—A police station and hence the circle attached to it

Tike -(1) Ceremonial anointing on the forehead (2) vaccination

Tri.—An oilseed SESAMUM INDICUM also known as gingelly in Madras.

TINDAL, tandel —A foreman, subordinate officer of a ship

Tola —A weight equivalent to 180 grains (troy)

THINK -Wild cattle found in Burma and to the southward Bos sondaicus syn hasing and bantens

Unit - A term in famine administration, denoting one person relieved for one day

URIAL.—A wild sheep in North Western India, Ovis vigera

Usan,—Soil made barren by saline efforescence, Northern India

VARIVATDAR.—Officer in charge of a revenue sub-division, with both executive and magiaterial functions, Baroda syn tahalidar

VAID or beldys, Bengal —A native doctor practising the Hindu system of medicine.

 $\label{eq:VAETh} \mbox{$V_{\rm AETh}$---(1) $A$ class of legal practitioner, (2)$ an agent generally}$ 

VIHARA.-A Buddhist monastery

VILLAGE —Usually applied to a certain area demarcated by survey corresponding roughly to the English parish

VILLAGE UNION—An area in which local affairs are administered by a small committee.

WAKE—A Muhammadan religious or charitable andowment.

WATE. The chief minister at a Mahomedan court

WET BATE .- The rate of revenue for land assured of irrigation.

YouL-A Hindu sacetic.

YUNANI.—Lit. Greek the system of medicine practised by Mahomedans.

ZAMINDAR -A landholder

EAMINDAM —(1) An estate, (2) the rights of a landholder namindar, (3) the system of tentre in which hand revenue is imposed on an individual or community occupying the position of a landford.

ZARANA.—The women's quarters in a house hence private advection of women.

Ziakar — A Mahomedan shrine, Korth-Westers Frontier

Zria .-- à District.

# The New Capital.

The transfer of the capital of India from of land suitable for the location of hulldings Calcutta to Delhi was announced at the Delhi purper on December 12, 1011 The reasons revision of spaceters and sizes and for the Durbar on December 12, 1011 The reasons revision of spacetons parks and recreation for it were stated in despatches between the grounds—To be assumed at 10 square miles for the Government of India and the Recretary of for the new city and 15 square miles for the State published at the time It had long Cantonment—(s) Cost of land and the cost of been recognised as necessary, in the interests of the whole of India, to de-provincialise the Government of India, but this ideal was un attainable as long as the Government of India was located in one Province, and in the capital of that Province—the seat of the Bengal Gov or that frounds—the seat of the Bengal Govern entiment—for several months in every year. It was also desirable to free the Bengal Govern ment of india which had been to the constant disadvantage of that Province. To achieve these two objects the removal of the capital from Calcutta was essential its disadvan tages had been recognised as long ago as 1868 when Sir Henry Maine advocated the change various places had been discussed as possible capitals but Delhi was by common consent the heat of them all. Its central position and situation as a railway function added to its initiational associations, told in its favour and, as Lord Orewe cold in his deepatch on the subject, to the races of India, for whom the legends and records of the past are charged with so intense a meaning this resumption by the Paramount Power of the seat of venerable Empire abould at once enforce the continuity and promise the permanency of British sovereign rule over the length and breadth of the country

The foundation stones of the new capital were laid by the King Emperor on December 15, 1911 when His Majesty said — It is my desire that the planning and designing of the public buildings to be erected will be considered with the greatest deliberation and care so that the new creation may be in every way worthy of this ancient and beautiful city worthy of this ancient and beautiful city subsequently a town pianning committee was appointed—consisting of Captain G 8 C Swinton, Chairman, and Mr J A. Brodie and B L. Luxyens, members—to advise on the choice of a site for and the layout of the capital Mr V Lanchester was subsequently committed by Government on some aspects of the question. The terms of their original members are the subsequently of t

the question. The terms of their original engagement (subsequently renewed) were stated by the Under Secretary of State to be—
The members of the committee will receive their travelling and living expenses, and the following fees for a five monthly engagement—Captain Swinton 500 gaineas Mr. Brodle, 1,750 guineas Mr. Lutyens 1500 guineas. The Secretary of State Bas also undertaken to retund to the Corporation of Liverpool the amount of Mr. Brodle a salary for the period of the absence.

cancoment—(c) Cost of land and the cost of executing necessary works on different sutes, (f) facility for external and internal communication, (g) Civil and Military requirements. On the east of the Juma they found no suitable site. To the north of Delhi, on the west of the Juma, where the Durhar camps were pitched they found some general advantages. tages The area is for example upwind and upstream from the present city of Delhi The rules and remains of the Delhis of the past do not comber the ground While the external do not comber the ground. While the external communications might need improvement, the tract is fairly well served by existing rail ways. Hoads and canals and the internal communication could be made convenient without excessive expenditure, and a good deal of mancy has already been spent on the area. But its disadvantages were found to be overwhelming. The site is too small and much of the land is liable to flooding. Similarly, the western slore of the hills to the nouth of the western slope of the hills to the south of Delit the Marsians plain was should usual blue built be built be Marsians plain was should usualtable, mainly because it cannot be considered to be Delit is destitute of historical associations, and is shut out from all view of Delhi

Southern site chosen—The Committee finally selected a site on the eastern slopes of the hills to the south of Delbl on the tringe of the tract occupied by the Delhis of the past. They describe it as follows - Standing a little to the Delhi side of the village of Malcha. just below the hills almost in the centre of the just below the hills almost in the centre of the site and looking towards the Jumus, Shah sahan a Delhi on the left fills the space between the ridge and the river Following down from the present city on the foreshore of the riversin Firoz Shah's Delhi the site of Indra Prastia, Humavan s fort, Humayan s fomb and Nizamuddin s tomb take the eye in a country of the state of the sta and Nizamaddin's tomb take the eye in a con-tinuous progress to the rocky eminence on which Chlysauddin Tughlak creeted his for-tress city. On the right the Lal Kot, the Kutb the Kila Ral Prithora, Biri and Jahan panah complete the circle of the monuments of ancient Delhis, The mid space in the fore ground is filled by Safdar Jans Kausciewa and the tombs of the Lodi dynasty whils to the left, towards Delhi, Jey Singh's gnomens and equatorial dials raise their fantastic shapes." The land chosen is free from liability to flood, has a natural drainage, and is not manager. has a natural drainage, and is not manaura. It is not cumbered with monuments and tombs needing reverent treatment, and the site is near the present centre of the town of Deibl.

Inverpool the amount of Mr. Brodle salary for the period of the absence.

Beilli and its environs.—In their first report, dated from Sinla, 18th June 1912, the choice of a site, they felt that the following of the northern and southern sites. Their considerations were paramount and must report dated the march 1912, the choice of a site, they felt that the following of the northern and southern sites. Their report, dated 4th March, 1912, states that the report, dated 4th March, 1912, states that the supply and irrigations supply (o) the previous for sites of the various points discussed in the above supply and irrigations supply (o) the previous for the various points discussed in the above supply and irrigations supply (o) the previous for the superior of

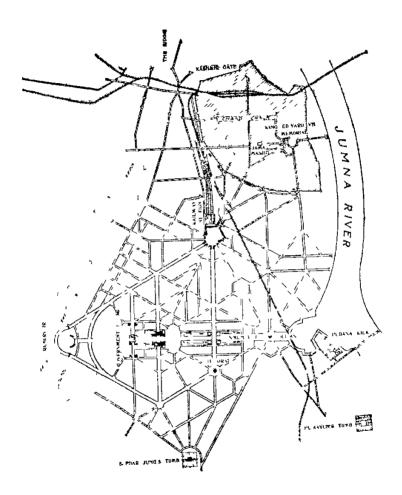
Report no Northern Site—In the same and left the roadways go and weld into one month the Town Planning Committee presented their second report, which deart with the sented their second report, which deart with the northern site This had been eleited by the fact that in December, 1912 Sir Bradford Leslie, an engineer with a distinguished indian lesdie, an engineer with a distinguished indian section of the Royal Society of Arts in London section of the Royal Society of Arts in London in which he set forth plans for building the will be a spacious amplitheatre to be made new capital on the northern site and producing out of the quarry from which much of the a fine water effect by a treatment of the river istones for roads and buildings may be cut new capital on the northern ate and producing out of the quarry from which much of the a fine water effect by a treatment of the river stones for roads and buildings may be out thation in England and its publication synchronised with some letters and articles in the brake the sky line of the ridge. To the east press in India expressing a preference for the northern site. The latter voiced a natural attraction to the north site which the Committee themselves experienced on their first visit to Delhi and caunciated some predelic in the great main avenue or parkway which mittee themselves experienced on their first visit to Delhi and caunciated some predelic that and later abandoned. The Town Plan ning Committee therefore undertook to review before and against the northern site. They came to the railway station. This vill terminate in the railway station are northern end, and in once more, and in greater detail, the arguments the Cathedral at its conthum externity to the park area in once more, and against the northern site. They came to the conclusion that — The soil is poor on the northern site as compared with the southern. The soil is a directly healthy and has healthy surroundings. The northern site seater expenditure on sanitary requirements will never be satisfactor. If the northern sets will never be satisfactor. If the northern can she is to be made healthy this involves we stated the latest which is to be made healthy this involves. site even after expenditure on sanitary require-ments will never be satisfactory. If the north-ern site is to be made healthy this involves ments will never be assumed to be made healthy this involves or site is to be made healthy this involves going outside the site itself and making the neighbourhood healthy also The building had to the south is generally good. On the principal business approach to the present city. At the railway station as north to be used at all it has in places to be properly administrative and municipal raised at considerable cost. There is no really offices the banks, the shops and the hotels suitable healthy site for a cantomum the principal business approach to the place will be laid out around which will be placed will be laid out around which will be placed will be laid out around the milk place will be laid out around the milk place will be laid out around the milk place will be laid out around the milk place will be laid out around the milk place will be laid out around the milk place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station are place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station as place will be laid out around which will be present city. At the railway station are place will be laid out around which will be present city. At the railway station are place will be present city. At the railway station are place will be present city. At the railway station are place will be present city. At the railway station are place will be present city. At the railway station will include the present city. mity to a city on the northern site. The exi-gencies of fitting in the requirements to the limited area of the northern site endanger the success of a lay-out as a whole and tend to make for cramping and had arrangement The result of placing a city on the northern site appears to the Committee to be the cration of a bad example in place of a good one.

Final Town Pinnsteg Report — The final station will lie the house of the local administration of the Town Pinnsteg Committee tration and the residences of the European with a plan of the law-out, was dated 20th March, 1913 The central point of interest in the lay-out which gives the motif of the commander in Chief will be placed Round whole in Government House the Council about the Viceregal setate and the forum lies Chamber and the large blocks of Secretariats the ground destined for the residences of the This Government centre has been given a member of Council the set staries and other position at Raisins hill near the centre of the new city Advantage is taken of the height of the height of this hill and it is inked with the high ground bethind so as to appear a sure of the right of the boulth of the club a low ridge divides bethind so as to appear a sure of the right in the next into two portions. That to the west self. Behind the hill a raised platform or forum would be built. This will be fished to the tract into two portions. That to the west self. Behind the hill a raised platform or forum would be built. This will be fished to the tract into two portions. That to the west self forum mould be built. This will be fished to the tract into two portions. That to the west self forum would be built. This will be fished in the self of the scatter idea is ossigned for a golf-course while the by the large blocks of Secretariat buildings and terminated at the western end by the mass of Government House and the Council Chamber, with its wester need by the mass of Government House range down. The forum will be approached by inclined ways with easy gradients on both its north and south sides. The main access to this from the last. The axis of the main avenue centre of the principal awances in the last. The axis of the main avenue centre of the principal awances in last right angles to the main cast to west axis. This Government centre has been given a

healthiness of the southern site, the medical Looking from the eastern end of the forum and sanitary advantages of which are over when the broad avenue enters the Govern mental centre and where the great mainways northern site are set, the view is towards the east "Right and left the roadwave go and weld into one the empire of to-day with the empires of the past and units Government with the business

The processional route will lead down from the railway station due south to the point where it is intersected by the main east to west Axis Her round a place will be gathered the buildings of the Oriental Institute, the Juseum, the Library and the Imperial Record Office To the south west of the railway

the ground destined for the residences of the Members of Council the bec staries and other



Others form part of a system running from square miles to the east of the Jumps river to the amphitheatre to the railway station and Commander-in-Chief's residence, and from both the latter to the commemorative column, lying on the axis between Indrapat and Government House is the focal point of the roads and avenues on the parkway

▲ lake which can be obtained by river treatment is shown on the plan. The lay-out has been made independent of the water effect, but the Committee think that its ultimate oreation will enhance enormously the heartless and general amenities of the new capital and it should and would become an integral por tion of the design now submitted

The report contains lengthy recommendations concerning water-supply drainage sewage system, parks and communications it is imperative it says — that a complete scheme of railway arrangements designed to serve the whole of the capital, both old and new, should be an essential feature of the lay-out of the Imperial City and this important matter about not be left to be settled when it is too late to deal with it. The main lines of the lay-out as projected by the Committee have been accepted by Government. The expenses lay-one as projected by flow that committee nave been accepted by Government. The expenses of the new central station and the difficulty experienced in meeting the various railway interested concerned will probably necreatiate the postponement of this part of the scheme and the needs of New Delhi will be met by a diversion of the existing Agra-Delhi Chord Ballway to a line drawn eastward of Humayun a Tomb and Purana Kills and the construction of a new through station near the site of the proposed Central station, Another important modification consists in the reservation of the area typing nouth of the Delhi and Ajmere Gates of the city for the purpose of the extension of Oid Delbi.

Temporary Capital.—For the use of the Government of India during the five years the building of the new capital is expected to the beliating of the new capital is expected to occupy—a period that will have to be extended ewing to the conditions created by the war—as area has been selected along the Alipur Boad between the present civil station of Delhi and the Bidge. The certy idea that many of the officials should live under canvas had to be given up, and there are now tempo rary offices and residences. The architecture and method of construction are similar to those adopted in the exhibition buildings at Allaha bed in 1910, but the buildings are expected to estimat the transitional period for which they are intended. They will subsequently be an asset of wome value the site they occupy becoming a suburb of the capital.

becoming a suburb of the capital.

Chief Commissioner Appointed.—On October 1, 1912, by proclamation there was constituted an administrative enclave of Delhi ander a Chief Commissioner, Mr W M Halley 1.0.3. The Delhi district of the Punjab from which this enclave was entirely takes, consisted of three tahafis or subdivisions and the steleve was formed by the central tahafit that of Delhi, and by such part of the seathern tahafit. Ballangarh, as was comprised within the Bestic of the police post of Mahazali. Delhi Procedures has an area of \$25 square indice to

aguage miles to the east of the Jumpa river to serve as a graing ground for the eatile for the city. The total area is, therefore 573 square miles. On the bests of the Centre of 1911, the population of the area originally included in the Province is 897000 and of the new area 14,419 or a total of 411 400. The population of the Municipal town of Delhi is 2,25 000

The Architects' Designs --At the Royal The Architects' Bestgas.—At me moyas Academy in 1914 there were entibleted drawings by Mr Lutyens and Mr Baker which, though provisional and rather in the nature of what are called Warrant Designs, show how the architectural problems of the new capital are to be solved Government House and the Secretary of the control o to be solved Government House and the Secre-teriat have been planned by them as one block, as it were a Capitol facing towards Indrapar. The Secretariat is to be built on the rock of Raisian hill, the top of which has been levelled for the purpose, behind the Secretariat is to be a raised canseway forming the approach to Government House is self is to be built on a high basement constructed on an enterpol of rock. The main proceedings! on an outcrop of rock. The main processional route to Government House is to be along a sloping way (at a gradient of one in 224) which leads from a semi-circular plants, the "Great Court" to the level of the Secretariat build Incs.

At the summit of this sloping way is the "Government Court a space of about 1 100 feet in length and 400 in breadth, flanked to the north and south by the two blocks of Secretarist buildings. These buildings have been designed by Mr. Bakers and the aggregate cost will be some £750 000. According to the design the centern end of each block is marked by deep logitas looking out over the central vista. In the centre of each block is a dome visits. In the centre of each block is a dome in the case of the north block this marks an entrance hall in the south block it surmounts as Conference hall with a suite of cloak and reception rooms Each block contains three floors in the lowest are motor garages, godowns, and record rooms in the middle floor are the offices of Members, Secretaries and other conference to the ten floors of the conference o officers in the top floor are clerks rooms. An essential feature of the design, and one which sets the character of the whole building, is the provision of loggies and recessed gateways or exedue giving views through to the fountain courts situate in the interior of the blocks The verandah so familiar in Indian, buildings is altogether absent. The architect relies for control of temperature on thick external walls with an air space inside, together with the thick window shutters adopted so widely in Southern Europe, and the wide chaffs charac-teristic of Oriental buildings

Between the north and south Secretariat blocks is the way into the "Viceroy's Court"— the raised causeway already referred to— leading up to Government House The Court is about 600 feet to breadth and 1,800 feet in is about 600 feet in breadth and 1,200 feet in length it will be treated with grass and water ways and low trees and should form a dignified approach to the final group of buildings. At a point midway in the causeway, reads lead off to the north and south, forming eiternative lines of approach to Government Home.

One thus reaches the portion of Government

fact above the causeway and lifty feet above the surrounding country. The house itself centres round the great Durber Hall, a domed structure which dominates the scheme of the structure which dominates the scheme of the buildings currounding it. Grouped round the Durbar Rail are the State rooms and great stairways from the entrance courts on the north and south sides. In the right wing is the Chamber of the Legislative Council of the Governor General and offices for its Members In April 1912, the Under Secretary of State Indicated in Parliament the decision that this indicated in Parliament the decision that this Chamber should be attached to the residence of the Governor General. It has, therefore been included in the dealgn of Government House but it has been assigned a separate ap-proach through a spacious avenue of its own. The left wing contains the private suits. In the rear of the house will be a raised gamien walled and terraced after the manner Moghuls, and behind that again, on the level of the surrounding country a park which will contain the staff houses and quarters. The park will lead up to the rocky slopes of the Ridge which closes in the vista on the west The access which has been designed by Mr Lutyens will with its attached quarters garden and park, and with the Legualative Council wing, cost approximately 2500 000

Style of Architecture—There had been prolonged battle of the styles over Delhi and if these designs gave satisfaction to neither of the extreme and opposed schools of thought, they clearly showed an endeavour to apply with due regard for Indian sentiment the spirit and essence of the great traditions of architecture to the solution of structural problems conditioned upon an Indian climate and Indian surroundings and requirements. To use the language of the architects themselves, it has been their aim to express within the limit of the medium and of the powers of its users the deal and the fact of British rule in India of which the New Delhi must ever be the monu

The inspiration of these designs is manifestly western, as is that of British rule, but they combine with it districtive Indian features without doing violence to the principles of structural fitness and artistic unity Many of structural fitness and artistic unity Many of the details which will be still more charac-teristically Indian cannot be displayed at the present stage, for the elaborate ornament and decoration, in which the Indian cracksman excels, can scarcely be shown on large-scate drawings intended mainly to libustrate the general conception of the buildings Much will oppend, moreover, upon, the resourcefulness and depend, moreover, upon the resourcefulness and ability of the Indian artificers themselves whom the Government of India proposes to bring together in Deihi to give expression, by their Indian craftmanship

Cost of the Scheme —It was at first tenta-tively estimated that the cost of the new capital would be four million sterling and that sum was given in the original despatch of the Government of India on the subject. A revised estimate was given by H. H. the Viceroy in Commit in March 1814. That estimate is as follows :--

(a) Salarha and Allowances, Ra. 70,18,700

- (2) Travelling Allowances of Officers and Retablishments, Rs. 6.20,000.
- (c) Supplies, Services and Contingencies, Rs 3,78 600
- (4) Works Expenditure, (1) Buildings Bs \$,50,87,200 (2) Communications Bs 29 91 300 (3) Parks and Public Improvements Rs. 27 34,500 (4) Biectric Light and Power, Bs. 43, 40,700 (5) Irrigation, Es. 27 49 000 (6) Water Supply, Sewerage Drainage, etc., Ba 78,77 900 (7) Purchase of Tools and Plant Rs. 35,50 600 (8) Survey Camps and Ceneral Preliminary Expenditure, Rs. 42,82,100 (9) during Construction,
- Rs ..., (e) Acquisition of Rs. 86 48 200 Miscellaneous Land taken щō. Expanditure.

Deduct antidipated recovery from tools and plant Ba. 10 00 000

These figures when added up make an aggregate total of Re. 7 67 04,300 or £ 5,113 620, but said His Excellency, "as we are anxious to face our liabilities for starting the new City to the fullest extent possible we consider it neces sary to make a special provision for contingen sary to make a special provision for contingen cles and unforessen expenditure in excess of the usual provision that has been made of 6 per cent on the works outlay by adding a sum of one and a half croces or \$1.000.00. We have accordingly a very large reserve to meet future Possibilities, which we are not able to foresee at present. I should add that the expenditure of this additional crore and a half on unforeseen confuneracies will be setsely. on unforeseen contingencies will be strictly controlled by the Government of India and no part of it spent unless absolutely necessary On the other hand the project estimate con tains certain items such as land, residences, water supply electric power irrigation, on which recoveries in the form of rent or taxes will in addition to meeting current expend ture partially at any rate cover the interest on capital outlay while there are other items on which some return account of the sale of leases general taxes, and indirect receipts may be expected.

Two Cathedral Schemes—In October 1918 a letter was published in The Trans from the lishop of Calcutta on the provision of a Cathe-dral at Delhi He appealed for 250,000 in addidrai at Denni ite appearen nor assistent and the first and quoted in his letter the following statement of autroval by the King Emperor I heartily depend, moreover, upon the resourcements and adversariant in its sector to inform a subdity of the Indian artificers themselves whom of approval by the King Emperor I heartily the Government of India proposes to bring approve of the project to build a Cathedral in together in Delhi to give expression, by their the new city of Delhi I trust that the appeal decorative work, to the best traditions of skilled for the necessary tunds may meet with a generous response, so that in due time the capital of India may possess a Cathedral which in design and character will testify to the life and energy of the Angilean Church and be worthy of its architectural surroundings both of days gone by and of those to come. His Majesty sub-scribed 2100 and the Queen 250 to the fund The Indian Church Ald Association have reouted several contributions towards the building fund for the proposed Cathedral Church, in response to the appeal of the Bishop of Calentia.

Chaques may be sent to the Secretary Indian deathrate fell to 42 14. There has been a Church Aid Association, Church House, West-notable decrease in infantise mortality in minater S W and crossed Lloyds Bank, St. 1912 the number of deaths was 4,091 and in Charles may he sent to the convenery imman church Aid Association, Church House, West-minster B W and crossed Lloyds Bank, St. James's Street, B W

A Roman Catholic Cathedral is also projected and Father Paul Hughes, O.M.C., has been touring India collecting money for the Cathe

Senitary Improvements -- While the work on the new city has been going forward various improvements in the existing Delbi have been carried out and the sanitary conditions in parti-cular have been much improved. The dy-nulsance which was extremely bad in Delh has been much reduced and other schemes have been much reduced and other senemes have been formulated as the result of a sanitary survey which embraced the whole of the city In the past Delh's death rate has consistently accorded the birth rate, and but for immi gration from the outlying districts the popu-lation would have gone down. In 1912, the death and barth rates were practically the same and in 1913 the figures per thousand of population were births 43 54 and deaths 43 74 In 1914, the birth rate rose to 49 10 while the under consideration

1913 they numbered 3 388 The later number slightly increased however in 1914 when deaths numbered 8 885. The deaths of people of all ages as compared with 1918 have de or aged in 1914 from 0 884 to 9 501 Docreases were fever from 0,820 to 5,091 small pox 106 to 5 plague from 7 to 2 cholers from 24 to 10

Higher College for Chiefs.—It was pro-posed during 1914 that a higher college for Chiefs should be established at Delhi and It this connexion a conference of Chiefs and Poli tical Officers was held at Delhi, in March, at which the Viceroy presided It was subsequently announced that subscriptions offered towards the college amounted to about ten and a half lakhs, various recurring sums were promised and the Government of India also promised to recommend the Secretary of State a grant of Rs. 50 000 a year Thus the whole capital would come to 121 lakks The proposal is still

### STOCK EXCHANGES

in Bombay They carry on business in the Brokers Hall bought in 1899 from the funds of the Share and Stock Brokers Association formed to facilitate the negotiations and the sale and purchase of John Stock securities promoted throughout the Presidency of Bom bay Their powers are defined by rules and promoted throughout the Presidency of Bombay Their powers are defined by rules and regulations framed by the Buard of Directors and approved by the general body of Brokers The Board has the power to fix the rates in times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of emergencies It is composed of Sir times of Emergencies It is composed of Sir Mancklee Brancha Mr Shapurlee Borabje Moraria Mr Magli Motichand Mr Hirachand Vasanji Mr Bhaldas Gooddas Mr Vadilial Pums chand and Mr Jamnadas Morarja (Secretary)

At first the admittance fee for a broker was At hirst the admittance fee for a broker was
Ra. 5 which was gradually taised to Ra. 1,000
There are two classes of Exchange Brokers
Europeans and Indians, the latter being certified for recognition by the native Stock Latchange Business in Government Paper and
all other Trusces Authorised Scentities is
carried on under the rules of the Bombay
Stock Exchange, but in the street outside the ball.

For many years the Calcutta Share Market had its meeting place in various guilles in the business quarter and was under no control except that of established market custom. In 1903 the Calcutta Stock Exchange Association was formed, a building was leaded Royal Exchange. Black the control of the Calcutta Stock Exchange and Exchange was considered in Sew China Baser Street now called Royal Exchange. in sew Crimin masar street now cared mysa; Bruhange Place, a representative committee was formed, and the existing trade customs were footneed into mise drawn up for the conduct of business. Admittance as a number of the 6tock Exchange is by vote of the committee and the guitance (so is at present)

There are about 365 Share and Stock Brokers | Rs 500 | The market custom differs very materi ally from that of most other Stock Exchanges since there are no settlement days, delivery is due the second day after the contract is passed and sales of securities are effected for the most part under blank transfers. Another difference in procedure as compared with the London Stock Exchange is that there are no Jobbern in the Calcutta market. The Designs who take their place, more or less are not compelled to quote a buyer's and a seller's rate and are themselves Brokers as well as dealers, calling upon the Banku and other clients and competing with Brokers

> There are about 150 members, besides outside brokers, the former commeting of European, Jewish Marward and Bengaleo firms. The Marwaris predominate The volume of bons fold Investment business is comparatively small and insufficient for the number of Brokers. small and insufficient for the number of Brokers. The principal business transacted on the Calcutta Stock Exchange is connected with the claims in Jute Mills Cost Companies, Tea Companies registered in India, Miscoll aneons industrial concerns (such a Paper Flour Rugar) Railway and Transit Companies, and Debentures, the latter comprising those of Industrial concerns and Trustee's Investment Securities, naturely Minniepal and Fort Trust Debentures Winna specul ative operations are being actively engaged in, which frequently take the form of ged in, which frequently take the form of forward contracts for delivery in three months time, the value of securities changing hands may aggregate as much as a crore of Rupees per month but since the trade is not constant and one year differs very much from another it would be difficult to estimate what the average annual turn over would amount to The association has an honorary secretary and is not at present affiliated to the Bengal Chamber of Commerce.

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(MOSTLY ANNUAL)

General.
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Statistical Abstract relating to British India (Parliamentary Paper)
Statistics of British India

I —Industrial (Factories Mills Part. Mines, &c)

II -Commercial (Foreign Trade Part and Shipping, &c)

Part III -Commercial Services (Post Office Rallways Tel graphs, &c)
IV.(a)—Finance

Part Revenue (Paper Currency Coinag Public Debt &c)

Part

Public Dett &c)

IV (b)—Finance and Revenue
(Principal Heads of Revenue, Satt, Optum &c)

V—Area, Population and Public
Health (Area, Population
Emigration, Births and Part

Deaths, Vaccination, &c )
VI —Administrative and Judicial
(Administrative Divisions Part. Civil and Criminal Justice Registration Police Jails œc)

Part VII -Educational (Education, Presses and Printing Publications)

Part VIII -Local Funds (Municipal) Local Boards, and ties, Port Trusts)

Census Reports (Decennial) India and Pro vincial

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Report on the Administration of Civil Justice for each Province

Report on the Administration of Criminal Justice for each Province

Report on Jails for each Province

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for eleven years (Parliamentary Paper)
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Loans raised in England (Half yearly Parliamentary Paper).

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Land Revenue Administration Provincial Reports for Lower Provinces (Bengal) Bibst and Orissa, Assam United Provinces, Bombay Presidency (including Sind), Pun jab Central Provinces and Beray Burma, and Madras

Report on Land Revenue Administration, Land Records, Settlement Operations, Alienatica of Land Act &c., for North-West Frontier Province.

Madras Survey Settlement and Land Records
Department Report

Beports of Land Records Departments for Bombay Burna, Bengal, United Pro-vinces, and Punjab

Report on Settlement Operations, Punish Reports on Survey and Settlement Oper ations Bengal and Assam

Reports on Operations of the Land Records and Settlement Departments, Central Provinces and Berar

Report of the Talukdari Settlement Officer

Hombay Provincial Reports on the Administration of Estates under the Court of Wards. Report on the Punjab Canal Colonies.

### Separate Revenue (Salt, Excise, &c.)-

Balt Department Reports Northern India, Madras, Bombay Sind, Bengal, Burma, Madras, Bombay Bihar and Orissa

Excise Report for each Province

Opium Department Reports United Provinces and Bombay Stamp Department Export for each Province.

Registration Department Report for each

Income Tax Report for each Province

#### Agricultural and Veterinary -

Report on the Progress of Agriculture in India.

Report on the Agricultural Research Institute

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Bulletins of the Agricultural Research Institute Puss and of the Provincial Departments of Agriculture

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Reports on various Agricultural Stations, Experimental Farms, and Botanic Gardens.

Season and Crop Report for each Province. Agricultural Statistics of India. Area and Yield of certain Principal Crops.

Report on Production of Tea in India. Report on Tea Culture in Assam.

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Co-operative Societies.-

Statements showing Progress of the Co-operative Movement in India.

Report on Co-operative Credit Societies for each Province.

Reports of Conferences of Registrars of Cooperative Credit Societies, India and Provincial.

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Review of Forest Administration in British India

Report on Forest Administration for each Province

Reports of the Forest Research Institute and the Imperial Forest College Dehra Dun.

Indian Forest Memoirs Indian Forest Records. Forest Bulletins.

#### fineral Production and Mines.-

Raview of Mineral Production (in Records of Geological Survey) Report on Production of Coal in India

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Annual Statements of Sea-borne Trade and Navigation, India and Provincial (Madras, Bombay Sind, Bengal, Burma) Review of the Trade of India (Parliamentary

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Tables of the Trade of India (Parliamentary

Paper)

Provincial Reports on Maritime Trade and Customs (including working of Merchandise Mark Act) for Bengal, Bihar and Orless, Bombay Sind, Madras, and Burma. Accounts of See-borne Trade (monthly and

for Calendar Year)

Accounts of Land Trade (monthly) Annual Statement of Coasting Trade of

British India. Report on the Trade and Navigation of

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in India, Report on Inland, Rail borne, or Rail and River borne Trade for each Province. External Land Trade Reports for Bengal

Bihar and Orissa, Assam, Burma, United Provinces, Punjab, North West Frontier Province, Sind, and British Baluchistan.

Indian Trade Journal (weekly)
List of Joint-Stock Companies in British India and Mysore

Reports on the working of the Indian Companies Act (Provincial)

Report on the working of the Indian Factories Act for each Province. Report of the Chief Inspector of Explosives.

Public Works.-

Administration Report on Ballways (Parila-

mentary Paper).

allways and Irrigation Works. Return
of Capital Expenditure, &c. (Parliamentary Ballways

Paper?
Provincial Reports on Public Works (Buildings and Roads)
Report on Financial Results of Irrigation
Operations.
Results in Irrigation Revenue for each Pro-

Report on Irrigation Revenue for each Pro-

Reports of Madres and Bombay Irrigation Denastromate Annual Report on Architectural Work.

Post Office and Telegraphs.-

Port Office Report Report of Indian Telegraph Department, Report of Indo-European Telegraph Depart-

Scientific Departments.— Report of the Operations of the Survey of India.

Records of the Survey of India.
Records and Memoirs of the Geological

Survey of India Report of the Indian Meteorological Depart-

ment.

Indian Weather Review Annual Summary Bainfall of India

Memoirs of the Indian Meteorological Department

Report of the Meteorologist, Calcutta.

Report of the Director General of Observatories

Memoirs and Builetins of the Kodalkanal Observatory

Report of the Board of Scientific Advice Report of the Archeological Survey of India. and Provincial Reports Report and Records of the Botanical Survey

Education Literature, and the Press.-

Education Report for each Province. Quinquennual Review of Education (Parliementary Paper)

Local Self Government --Reports on Municipalities for each Province
and for Calcu to, Bombay City Madras City and Rangoon.

Report on District and Local Boards or
Local Funds for each Province

Beports of Port Trusts of Calcutta, Bombay Madras, Bangoon Karachi and Aden. Medical, Sanitary and Vital Statistics .-

Report of the Sanitary Commissioner with the Government of India Report on Sanitary Measures in India (Parila-

mentary Paper)
Beport of the Sanitary Commissioner for each Province.

Vaccination Report for each Province Report on Civil Hospitals and Dispensaries for each Province.

Report on Lanatic Asylums for each Province.

Report of the Chemical Examiner and Baoteriologist for each Province. Scientific Memoirs by Officers of the Medical

and Sanitary Departments.

Reports of the Al-India Sanitary Conferencer

Reports of the Imperial Malaris Conferences. Indian Journal of Medical Research (Courterly).

Emigration and Immigration.— Calcutta Port Emigration Report. Bengal Inland Emigration Report.

Amen Immigration Report.

#### Prices and Wages,-

Prices and Wages in India. Variations in Indian Price Levels. Beports of Provincial Wage Comments.

The costoms revenue is mainly derived from the general import duty, estain special import duties such as those on arms, inprons, sugar, petrolesm and tobacco, and are export duty or nice. General import duties, which were abolished in 1862, were reimposed in 1894, aince which date the general rate of duty on commodities imported into British India by see, has been a per cent, and ealerses. Cottom was exempted in 1894 when the general duties were received, in December 1894 a 5 per cent, duty of scalorses was imposed on imported cottom goods and yarm, while an excise duty of 5 per cent was imposed on all yarms of counts above 20 spun at power mills in Reitish India in February 1896 cotton yarms and threads imported or manufactured in India were from duty, while a uniform 3 per cent ac enforced duty was imposed on all woren cotton goods imported or manufactured in India at power mills. The products of hand looms are exampted. The duties are levied for fiscal purposes and not for the protection of Indian Industries. It will be noted that machinery (excluding tools and implements to be worked by manual or salmel labour), railway materials, gold, living animals food grains, coal, raw cottom, raw wood, cottom twis and yarm and sewing and darning threads printing materials and books (but not paper) are, among others, on the free list. In 1896-97 the first year of the existing arrangement, the net custom revenue amounted to Ba. 3 45 lakhs and in 1802-08 Rs. 4 26 lakhs. Last year freached Rs. 7 87 lakhs. The gross revenue from imports, self excluded, was Rs. 8,07 lakhs—a decrease of 14 per cent as compared with the customs revenue (Rs. 0 36 lakhs) reall ed in the previous year

### Schedule II--(Import Tariff)

No	Names of Articles.	Per	Bate per duty
	Arms, Ammunition, and Military Stores. Including also any articles other than those included in Nos 1 to 12 of this schedule which are arm within the meaning of the Indian Arms Act, and any articles which the Governor-General in Council may by notification in the Gazette of India, declare to be "Ammunition or Military Stores" for the pur poses of this Act.		Rs. a, p
1 2 8 4	Firearms other than pistois, including gas and air gams and rifes Barrels for the same whether single or double Pistois Barrels for the same whether single or double	Each	50 0 0 30 0 0 15 0 0 10 0 0
6 7 8	Springs used for firearms, including gas and air guns and rifles Gun stocks sights blocks and rollers Revolver breeches for each cartridge they will carry latractors, nippers, heep plates, pins screws, tange, bolts thumb-riecce triggers trigger-guards, ham		8 0 0 5 0 0 2 8 0
9	mens platous, plates and all other parts of a firearm (including a gas and air gun or rifle) not hereful otherwise provided for, and all tooks used for clean ing or putting together or loading the same Machines for making loading or closing cartridges		1 8 0 10 0 0
10	Machines for capping cartridges  Exception I — Articles falling under the 5th, 6th, 8th 9th or 10th head of the foregoing list when they appertain to a firearm falling under the 1st or 3rd head and are fitted into the same case with such		2 8 0
	firearm  Exception II — The following are also free, namely —  (a) Arms forming part of the regular equipment of an officer entitled to wear diplomatic, mill tary naval or police unitum		Free Free
	(b) A sword a revolver or a pair of pistols, when accompanying an officer of His Majesty's Beggiar Forces, or a commissioned officer of a volunteer corps, or certified by the comman dant of the corps to which such officer be		
	longs, or in the case of an officer not attached to any corps, by the officer commanding the station or district in which such officer is serving, to be imported by the officer for the purposes of his equipment		

Schedules II and III are given without revisions which are expected early in 1918. Schedule IV has been revised.

Schedule II—(Import Tariff)—continued						
Кo	Names of Articles.	Per	Bate of Duty			
	Arms, Ammunition and Military Stores.—contd	<u> </u>				
10	Machines for capping cartridges—conid					
	Exception $II$ $(g)$ Morris tubes and patent ammunition, ets.— $conid$					
	(c) Swords and revolvers which are certified by an Inspector-deneral of Police to be part of the ordinary equipment of members of the Police force under his charge (d) Swords forming part of the equipment of native commissioned officers of his Majosty s Army (c) Swords for presentations as army or volunteer					
,	frizes  (f) Arms, ammunition and military stores imported with the sanction of the Covernment of India for the use of any portion of the military forces of a Native State in India which may be maintained and organised for Imperial Service  (g) Morris tubes and patent ammunition when imported by officers commanding British and Native regiments or volunteer corps, for the instruction of their men.					
	Proviso 1 —No duty in excess of 10 per cent ad salores shall be levied upon any of the articles numbered 1 to 10 in the force dug list when they are imported in reasonable quantity for his own private use by any person lawfully entitled to possess the same					
	Proviso 2.—When any articles which have been otherwise imported and upon which duty has been levied or is leviable under numbers 1 to 10 are purchased retail from the importer by a person lawfully entitled as aforosaid in reasonable quantity for his own private use, the importer may apply to the Customs Collector for refund or remission (as the case may be ) of so much of the duty thereon as is in excess of 10 per cent ad culorers and if such Collector is satisfied as to the identity of the articles and that such importer is in other respects entitled to such refund or remission he shall grant the same accordingly					
11 12	Gunpowder all sorts AB other sorts of arms ammunition and mixtary stores	}sd valorem	Ten per cent.			

By the Commerce and Industry Department Notification No 3798—90, dated the 27th May 1911, all articles, other than those specified below liable to duty under head, 5, 6 8 9 or 10, as the same may be, of the above schedule, were excupted from so much of the duty leviable theremediar on importation into British India as is in excess of duty of 10 per cent as culores.

Main springs and Magazine springs
Gun-stocks and Breech blooks.
Actions (notuding skeleton and waster)
Breech botts and their heads
Cacking pieces.
Looks (507 Mussle-Loading arms).
Machines for making, loading, closing or capping cariffices for rifled arms.

### Schedule III-(Import Tariff.)

No.	Names of Articles	Per	Rate of Duty
	Liquors, Oplum Salt Fish, Tobacco and Silver		Ra. s. p
1	Liquors (s)—		· }
	Ale beer and porter	Impenal gallon or	0 3 0
	Cider and other fermented liquors	8 guart bottles	<b>,</b>
	Liqueurs and sweetened spirits cordials bitters, per fumed spirits, and tollet preparations containing spirit		18 0 0
	Spirit which has been rendered effectually and per manently unfit for human consumption	ad valorem	Five per cent.
	Spirit used in drugs, medicines, or chemicals	Imperial gallon or 6 quart bottles of the Strength of Londonproof	and the duty to be increased o
	Splitt, other sorts		and the duty to the increase or reduced in proportion at the strengt of the spirit exceeds or it less than Lordon proof.
	WIEE-	ļ	1
	Champagne and all other sparkling wines not con taining more than 42 per cent of proof spirit	Imperial gallon or 6 quart bottles	J 12 0
	All other sorts of wines not containing more than 42 per cent of proof spirit	,	1 8 0
	Provided that all sparkling and still wines contain ing more than 42 per cent of proof spirit shall be thable to duty at the rate applicable to "Spirit other sorts."	1	
2	OFIUM (5) and its sikaleids	seer of 80 tolas	24 0 0
8	Bal₹ (c)—	Indian maund of 827 lbs avoir dupois weight.	

### Schodule III-(Import Tariff)-emid

No.	Names of Articles.	Per	Rate per duty
<u></u>	LIQUORS OFFUM, SALT, FIRE, TOBACCO AND SILVER—concid.		<u></u>
5	BALKED FISH, wet or dry  TOBACCO-	Indian maund of 82j lbs. avoir dupois weight	
	Unmanufactured Cigara	pound	1 0 0
	Olgarettes weighing less than 3 lb per thousand Orgarettes weighing 3 lb or more per thousand Manufactured, other sorts	pound thousand	3 2 0 1 4 0 1 2 0
6	Silver builden or coin, except current coin of the Government of India which is free	onnoe	0 4 0

(a) Spirit imported from any port in British India, and protected by the certificate of an efficient engagement in that behalf is chargeable with only the amount if any by which the duty leviable thereon exceeds the duty shown by such certificate to have been already paid.—(Act VIII of 1894, Section 7)

(5) Option imported from any port in British India, and protected by the certificate of an officer empowered in that behalf is chargeable with only the amount, if any by which the duty leviable thereon exceeds the duty shown by such certificate to have been stready paid —(Act VIII of 1914. Section 7).

of 1914. Section 7)

(e) Sait imported from any port in British India, and protected by the certificate of an officer empowered in that behalf, is chargeable with only the amount, if any by which the duty leviable thereon exceeds the duty shown by such certificate to have been already paid.—(Act VIII of 1804 Section 7)

(a) By Finance Department Notificallon No. 1748-Eve dated the 20th March 1907, the cinty was fixed at one rupee in the case of Birrina Bengal Madras, Bonabay and Sind In case of Adea the duby is one rupee for each 1401b avoltdupis

(c) The rate is six annas.

# Schedule IV—(Import Tariff ) GENERAL DUTIES

No.	Names of Articles	Per	Tariff Valuation.	Duty
1	ANIMALS LIVING Hosses, Carrin, Samer and all other living animals of all kinds		Ra a p	Pres.
1	ARTICLES OF FOOD AND DEINE, COFFEE FRUPH AND VEGETABLES (except fresh fruits and vegetables not appearately estimated, which are free)—	owt.	42 0 0	Five per cent.
	Almonds without shell to shall (langui) Passian , European	# ! #	82 0 0 83 0 0 75 0 0 45 0 0	n n ,

# Schedule IV.-(Lonport Tariff)-contd

To .	Kames of Articles.	Per	Tariff Valuation	Duty
	ARTICLES OF FOOD AND DRINK-0041d	_	Ra д р	<del>-</del>
3	FRUITS AND VEGETABLES—confd.			
	Cashew or cajoo kernels	ewt	<b>28</b> 0 <b>0</b>	Five
	Coconute Stasta	thousand	75 O O	per cent.
	, other kernel (khopra) Curranta	curt	76 0 0   24 0 0 25 0 0	<i>"</i>
	Dates, dry in bags wet , baskets and bundles in pots, bexes, time and crates	, 1	7 12 0 5 9 0 8 0 0	"
	Pigs, Persian drled Garite Hops	н	9 0 0 3 0 0	Free.
	Platachic nuts	owt.	40 0 0	Five per cent.
	Prunes Bussora (alu Bokhara) Baistra black Kishmish, Persian Gulf Munakka	cwt.	ad valorem	,
	other sorts  Walnuts, all descriptions All other sorts of fruits and vegetables		ad valorem	,
4	GRAIN AND PULES including broken grain and pulse, but not beledding flour  MERGIAL AND ARRATED WATERS and all unfermented	!		Free.
6	and non-alcoholic beverages PROVINGER, OILMAN'S STORES, AND GROOMERS—		ad valorem	Per cent
v	Becom Beef and Pork Beche de mer			r I
	Butter Cassava, Taploca or Sago Cheese	Ib cwt.	1 4 0 10 0 0 ad valorem	j , ,,,
	China preserves in syrup dry, candled Cocum	cwt. (net4) Ib cwt.	24 0 0 0 5 0 4 8 0	Free.
	Figh-mave Flour	Ì	ad palorem	Free. Five per cent.
	Ghi Margarine Pork hams Shark ma	c <del>a</del> t.	70 0 0 ad valorem	Free
	Hingally and sociale Vinegar in costs		ad valorem	Two and
	not in coalco-			per cent.
	, Indian		я	per cent.
	All other norts of provisions, oliman s stores, and groceries		j 	1

# Schedule IV -(Import Tariff)-oracle.

No.	Names of Articles,	Per	Tariff Valuation.	Duty
	ARTICLES OF FOOD AND DRINK-cond.		Ra. s. p	1
7	Bricas— Beteinuts, raw whole, split, or sliced, from Gos Straits and Dutch Rast	owi	14 0 0	Five per
	indics whole, from Ceylon	,	9 D O 11 O O	"
	,, raw split (sun-dried) from Ceylon all other sorts Chillies, dry	ewt.	21 0 0 ad valorem 12 0 0	» »
	Cloves stems and heads n in seeds, narisvang	21 Pi	42 0 0 10 0 0 13 0 0	*
	Ginger dry Maco Nutmegs	њ.	15 0 0 1 8 0 0 5 0	7
	Pepper, black white	owt	0 3 0 82 0 0 58 0 0	:
В	All other sorts of spices Sweak, crystellized, beet and soft, refined in China	cwt.	9 12 0 11 0 0	,
	" " from Java, 28 Dutch standard and above		9 8 0	
	Dutch standard  , , , from Java, 16 to 12  potent standard  tandard and under	P3	8 4 0	
	, n from Maurithus, equal to 16 Dutch, stan- dard and over	"   .	8 12 0	
	Molesses from Java , other countries Supar, all other sorts, including saccharine produce	n	2 8 0	31 31
_	of all kinds and confectionary	_	ad valorem	-
Đ	# green	, <u>.</u>	0 10 0	# N
	CHEMICALS, DRUGS, MEDICINES AND MARCOTICS AND DYRING AND TANNING MATERIALS			
10	CHINGGAL PRODUCTS AND PERPURATIONS		1	1
	Acid, sulphuric Alkul, Indian (mji khar) Alum	ows.	2 0 0 5 12 0	17 12 10
	Amenio (Gaina mansil) other sorts Cupperas, green	"	16 0 0 ad valorem	Two and one-ball per cent.
	Explosives namely, bisating gelatine, dynamite, roburite, toutte, and all other descriptions, including descentous and biasting rose		ad valorem	Nye per cents.
	fiel extraordec deduces Bada Bicarbonate	owt.	\$1 0 0 \$ 19 0	per e
	Buta Bicarbonate	Ħ	\$ 0 0	-

# Schedule IV --(Import Tariff) -- oentd

0	Names of Arthdes.	Per	Tariff Valuation.	Duty
	ARTICLES OF FOOD AND DRINK-contd		Rs. s. p.	
10	CHEMICAL PRODUCTS AND PREPARATIONS—come.			
	Sulphate of Copper	cwt	19 0 0	Fire
	Sulphur (brimstone) flour	,	600	Per cent
	, roll	**	5 4 0	.,
	rough All other sorts of chemical products and preparations, including saltpetre, borax, grape-sugar and gineose, but exciteding nitrate of soda, muriate of potash, kulinit salts, nitrate of lime, calcium cyanamide and mineral superphosphates which are free		ad valereus	**
11	DRUGS, MEDICINES AND NARGOTICS-		1	, "
	Aloes, black			
	Socotra Alge-wood		;	"
	Anti plague serum			Free.
	Assfortida (hing)	cwt	115 0 0	Per cen
	coarse (hingra) Atary Persian		ad valorem	1 11
	Bandochan (bamboo camphor)	lъ	0 6 0	"
	Brimstone (amaleara) Calumba root	cwt.	7 0 0	<b>•</b>
	Camphor refined other than powder	Тъ	1 4 0	} p
	Camphor in powder Casela lignes	ewt.	20 0 0	"
	China root (chobchini) rough	,,	9 0 0	"
	Cocsine	owt.	ad valorem 85 0 0	;;
	Onbebs Galangal China	DW 6-	9 0 0	<b>,</b>
	Pelitory (akalkara)		ad valorem	j =
	Peppermint, crystals Quinine and other alkaloids of cinchons		' _	Free
	8-alep	cwt.	140 0 0	Pive per cer
	Benna loaves		ed valorem	n
	Storax, liquid (rose mellos or salarss) All other sorts of drugs, medicines, and narcottes,	ows.	88 0 0	יי
	except optum and tobacco (for which see schedule		ad valorem	
	m)		MR ATTOLONE	-
12	Alterine dye, dry, 49 per cent,	Ib.	180	l
	m m n 10 m		1110	, m
	9 60 P		2 4 0	, n
	1 " 80 "	p 11	2 14 0	"
	, , , 100	n	949	,
	, , modet to	-	1	100
	Alisaline dye, moist, 16 per cent.	,,	0 8 9	
	\$0.		0 9 9	H
			1 4 0	77 11
	" selts	ì	nd valeryas	

### Schedule IV -(Import Tariff)-contd

No —	Names of Articles.	Per	Tariff Valuation.	Duty
12	DYRING AND TARRING MATERIALS—contd		Ва. в. р	
	Avar bark	owt.	3 12 0	Five
	Busgand (gulpista) ( octimeal Gallinuts (myrabolams)	lb	as valorem Ro 1 0 0 ad valorem	per cent
	Persian Madder or manjit Orchilla weed Sappon wood and root	owt.	al valorem	, , ,,
	Turmeric All other sorts of dyeing and tenning materials		,	N P
	METALS AND MANUFACTURES OF METALS.			
18	Hardware and Curtiery, including ironmongery and platedware, and also including machines, took, and implements to be worked by manual or salmal labour [Exceptions, which are free (i) Water-lifts larger milits, oil present, and parts thereof, and any		· c	
	other machines and parts of machines ordinary used in processes of husbandry or for the preparation for use or for sale of the products of husbandary which the Governon-General in Council may by bothfictation in the Gazette of Ludic, exempt, (11) the following agrorultural implements, when constructed			
	so that they can be worked by manual or animal power namely winnowers, threshers, moving and resping machines, elevators, seed crushers, chaff cutters, root-cutters horse and bullock gears, ploughe, cultivators, scarifiers, harrows clod-crush			
	era, seed-drilla, hay teddera, and rakes, (iii) the following dairy appliances when constructed so that they can be worked by manual or animal power namely cream separators, talk steriliting or pasteur ing plant, milk serating and coiling apparatus, churus butter dryers, and butter workers (iv) the			
	namely bobbins, warping) forks for fooms, healds, heald cords, heald knitting needles, isoes, lags and needles for dobbins, puckers (buffalo and others) picking bands picking levers picking sticks (over and under) reed, pilers, reeds, shuttles (for power looms), springs for looms, strappings, and wett forks (v) box backs and wells and rough unshaped bobbin ends, when unported by or on behalf of a manu-			
	facturer or millowner and certified by him to be intended exclusively for use in his mill]		ad raiorem	have per cent
14	NACHMENT Ramely, prime-movers and companent parts thereof, including bollers and component parts thereof also including locomotive and portable			الملكة الملكة
	engines, steam rollers, fire-engines, and other machi- nes in which the prime-shover is not separable from the operative parts			Free
ļ	machines or acts of machines to be worked by electric steam, water, fire or other power not being manual or animal labour, or which, before being brought into use, results to be fixed with			
1	reference to other moving parts, and invinding beiting of all meterials for driving machinery		1	1

# Schedule IV --(Import Tariff)-costd

No.	Names of Articles	Per	Tariff Valuation	Duty
	METALS AND MANUFACTURES OF METALS—contd.	+	Re a. p.	   
14	MACHINERY etc.—contd			
	Provided that the term does not include tools and implements to be worked by manual or animal labour and provided also that only such articles shall be admitted as component parts of machinery as are indispensable for the working of the machinery and are, owing to their shape or to other special quality not adapted for any other purpose.		: : :	, 
	Note.—Machinery and component parts thereof made of substances other than metal are included in this entry			
15	METALS, unwrought and wrought, and articles made of metals—			
	Brass oraidue and leaves, European		ad valorem	Five per cent.
	China patent or yellow metal, sheets weighing 1 lb or above per square foot, and sheathing brasters, and plates patent or yellow metal (old) sheets, flat or in rolls, weighing less than 1lb per square foot wire all other sorts	cwt	54 0 0 35 0 0 ad valorsm	, , ,
	Copper, bott and bar rolled braziers sheets, piates and sheathing nails and composition nails old pigs, tiles, ingota, cakes, bricks and slabs. Chins, white, copperware foll or dankpana, white, 10 to 11 in × 4 to 5 in.	cwt. lb	62 0 0 ad valorem 45 0 0 58 0 0 2 2 0	
	, foll or dankpans, coloured 10 to 11 in  X 4 to 5 in.  wire, including phosphor broase all other sorts, unmarenfactured and manu factured, except current codn of the Government of India, which is free		2 0 0 ad valorem	n n
	German Silver Gold buillen and com ,, leaf		ad valorem	Free. Five
- {	Iron, anchors and cables	[	н	One Der cer
	" Lowmoor and similar qualities, all descriptions angle, T other than Lowmoor or Swedish " and hoop, other than Lowmoor or Swedish it galvanised, timed, or lead coated	ton	110 0 0	per cen
	Iron har, Swedish and similar qualities  "Swedish and similar qualities, nail-rod round-rod, and square, under half an laci is diameter	ton	190 0 0 200 0 0	

### Schedule IV -(Import Tariff)-contd

lo.	Names of Articles.	Per	Tariff Valuation.	Dety
	NETALS AND MANUFACTURES OF METALS—const.		Ra a p.	
15	Marans, unwrought and wrought, and articles mad of metals—could	(a		
	tron bars, other kinds	tom	110 0 0	One per cent
	,, ,, ,, nall rod, round red, an aquare, under half a lnch in dlamster	n .	115 0 0	par tour
	lead-coated	<b>≔</b>	ad valorem	}
	" beams, joists, pillars, girders, acrowpile bridge work and other such description of iron, imported exclusively for buildin purposes	5, 38 18		
	, channels, including channel for carriages	1	(	,
	plate and sheet, Swedish and charcos bars, plates, and sheets, Swedish and charcos	<b>-1</b>	, "	"
	if galvanised, tinned, or lead-coated , plate, other kinds, above i inch thick an		} P	"
	strips sheets other kinds, up to \$ inch thick	ton	120 0 0 185 0 0	1 11
	, sheets (other than corrugated), plates or strip other kinds, if paivanised, tinned, less coated, chequered or planished	e,	ad salorem	
	,, sheets, corrugated, galvarded or black	tom	190 0 0	,,
	, hoop		140 0 0	, "
	, <u>zails</u> , rose, wire, and flat head ,, other kinds, including galvanise timed, or lead-coated	a, owt.	ad valorem	11 22
	, muts and boits, also hooks and nuts for roc ing, galvanised or black	- 1		
	, old , pig	ewt.	ad reloren	2
	pipes and tubes, including fittings therefore such as bends, boots, elbows, tees, socket flanges, and the like	#F,  ₽,		
	, nails, chairs, sleepers and bearing, and fa plates, spikes (commonly known as do spikes), switches and crossings other that those described in No. 60, also lever box cities and the bars	<b>6</b> }		}
	, rice-bowls	L	1 '	,
	ridging, guitering, and continuous rooting rivels and washers, all sorts	. {	71	"
	wire, including fencing wire and wire-for- but excluding wire-notting	pe	.,	
	, cans or drums, when imported containing petroleum, which is separately assumed druty at one anna and six plus per imperingular under No 16, namely —	to		
	Iron, cans, timed, other than petrol to of two gallons capacity	CRA	0 3 6	Five per com
	" or draws, not it said, of it pallons especitly " draws of four pallons aspecity—	NO N	0 2 0	per um
	# druns of four gallens a specify (4) With factor capet	drum	100	1 _
	(b) ordinary .	,,,	0 8 0	-

# Schodule IV -- (Import Tariff)-centd

Names of Artic va.	Per	Teriff Valuation	Duty
METALS AND MANUFACTURES OF METALS—contd.		Ra. a. p	
METALS, unwrought and wrought, and articles made of metals—contd			
Iron all other sorts including dies or circles and wire netting		ad valorem	Five
Lametta Land, all sorts (except sheets for tea chests which			per cent,
are free) Quicksilver Shot, bird Steel anchors and cables	lb. cwt.	1 8 0 22 0 0 ad palorem	őne .
blooms angle T and hoop if galvanised, tinned	ton	110 "0 0	per cent
or lead-coated ,, bars, (other than east steel)	ton	ad valorem 110 0 0	P
s swedish and similar qualities nall rod round rod, and square, under inch in diameter	ton	ad valorem.	a
bar galvanised tinned lead coated, pla nished, or polished channel including channel for carriages		ad volorem	17
plates, above I inch thick and strips sheets, up to I inch thick	ton	120 0 0 125 0 0	. 17 29   H
s, sheets (other than corrugated) plates or strips, if galvanised tinned, lead-coated, chequered, or planished		ad valorem	
, sheets, corrugated, galvanised or black hoop	ton	190 0 0 140 0 0	34 70 21
, nails , nuts and boits also hooks and nuts for roofing galvanised or black		od valorem	
, old beams, joists, pillars girders, serewpiles, bridge-work, and other such descrip- tions of steel, imported exclusively for	cwt.	2 "8 0	10
building parposes  cast and blistered, including spring and tub		ad valorem	D
steel , ridging, guttering and continuous rousing			EP EP
pipes and tubes, including fittings therefor such as bends, boots, elbows, tees, sockets, flanges, and the like		,,	v
, rails, chairs, sleepers and bearing, and fish plates, spikes (dammonly known as dog spikes), switches, and crossings, other than those described in No. 60 also lever- boxes, clips, and tie-bars		ad valorem	One por cent
" rivets and washers, all sorts " wirs, including fencing wire and wire-rope, but excluding wire-noting			h hor come
<u> </u>	<u> </u>	<u> </u>	

# Schedule IV -- (Import Tariff) -- centd

He.	Names of Articles.	Per	Tariff Veluation.	Duty
	MRTALS AND MANUFACTURES OF MRTALS—cont.		Ra. s., p.	
15	METALS, unwrought and wrought, and articles made of metals—coxeld.			
	Steel, cans or drams, when imported containing petroleum, which is separately assessed to duty at one anna and six pies per Imperial gallon under No. 16, namely			
	Steel, cans, timed other than petrol time of two gallous capacity or drums bot timed, of two gallous capacity	can	036	Five per cent.
	,, drums of four gallons capacity—  (a) with faucet caps  (b) ordinary	dram	100	
	" all other sorts, including discs or circles and wire-nothing Tin, block " foil and other sorts	cwi.	ad valorem 130 0 0 ad palorem	)4 } IS
	Zinc or speiter, rails , tiles or slabs, soft , hard , all other sorts, including bother	ewt.	25 0 0 20 0 0	) 21 28
	All other norts of metals		1	n
	OIL8	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
14	PhenoLaura, including also naphtha and the liquids commonly known by the names of rock-oil, Rangoon oil, Burns oil, kerosine, parafin oil university oil in the particle of the particle oil in the particle oil in the periodic, passine benzol, benzoline, benzine, and any inflammable liquid which is made from petroleum, coal, schist, shale, peat or any other bitumizous substance or from any products of petroleum  Phenzolaura which has its flashing point at or above two hundred degrees of Fabrenheit's thermometer and is proved to the satisfaction of the Customs Collector to be intended for use exclusively for the betching of jute or other fibre or for lubricating purposes	Imperial gallon	ad valorem	One and six pirts.
	Prenounce which has its fisshing point at or above one hundred and fifty degrees of Fahrenheit's ther momenter and is proved to the satisfaction of the Customa Collectors to be intended for use excha- sively as fuel or for some sanitary or hygicule pur pose	1		,
	Cocomet eil	cwt	82 0 0	,,
	All other seris of oil, animal or vegetable (including otto of all kinds), and mineral, including Paratin wax		ad valores	,

### Schedule IV -(Import Tariff)- antd

No.	Names of Articles	Per	Tariff Valuation.	Duty
	OTHER ARTICLES, UNMANUFACTURED AND MANUFACTURED		Ra. s. p.	
17	APPAREL, including drapery haberdashery and milli- nery and milltary and other uniforms and accoun- rements but excluding cotton, hostery (for which see No 30) and boots and shoes (for which see No 46) and excluding also uniforms and accounte- ments appertaining thereto imported by a public servant for his personal use, which are free		ad valorem	Five
18	ART WORKS OF, except (1) statuary and pictures intended to be put up for the public bonefit in a public place, and (2) memorish of a public character intended to be put up in a public place including the materials us d or to be used, in their construction whether worked or not, which are		<b>,</b>	,
19	BAMBOOS, common grass hay rushes, straw, and leaves			Free
<b>2</b> 0	BOOKS, printed, including covers for printed books, maps charts and plans proofs, music, and manu- scripts			,
21	BRISTLES AND FIRRE for brushes and brooms			}
22	BRUSHES AND BROOMS, all sorts		ad valerem	Five
23	BUILDING AND ENGINEERING MATERIALS, namely apphals, bricks and tiles, coment of all kinds, fireday earthers were piping, time, and other kinds not otherwise described		1 1	per cent
24	CARIBETWARE AND FURRITORE			1
2 <b>4</b> 4	CHALLENGE CUPS OF TROPHIES which have been won by any inlittery unit (including volunteer corps) or by a particular member or members of any such unit in India or which have been sent by donors resident shroad for presentation or competition in India		i I	broc
	Provided that the articles are certailed by the officer commanding the unit or brigade or any higher min tary authority or any of their staff officers as having been offered for competition or presented with the sole or main object of encouraging military efficiency and that they have had engraved on them before being shipped the object for which presented and except in the case of those sent by donors reddent abroad for competition in India the name of the winner or winners.		<u> </u>	
26	CARRIAGES AND CARTH including motor care, bloydes, tricycles, librileshas, bath abairs, perambulators tracks, wheelbarrows and all other sorts of convey saces and component parts thereof, but excluding motor cars designed to carry goods and containing a prime-mover which are free		ad palarem	Five
28	CHIRMS AND JAPANESS WARR including insquered ware, but excluding earthenware, china and por colain (for which see No. 52)			per cent

### Schodule IV -(Import Tariff)-outd

a.	Names of Articles,	Per	Tarif Vajustion.	Duty
	OTHER ARTICLES, UNMANUFACTURED AND MANUFACTURED—cond		Rs. a. p.	
27	CLOCKS, WARTERS, and other time-keepers, and parts thereof		zd valorem	Pive per cent
28	COAL, COME, AND PATERT FUEL			Free.
20	CORDAGE, ROPE, and twine made of any vegetable		ad solorem	Mye Der cen
D)	COTTON, AND ARTICLES MADE OF COTTON—			Free.
	" twist and yarn " sewing and darning thread ", plees-goods, hosicry, crochet cotton throad, and all other manufactured cotton goods not otherwise described		ad palerem	Three and one-hall
81	BARTH COMMON CLAY AND SAND			Free
12	BARTHERWARE (except eartherware piping, for which see No. 23), china, china clay porcelain and imitation or take coral		ad valorem	Flve per cer
33	SAME OF ALL KINDS, except common pain-heaf fans, which are free		,,	)
34	FIREWORKS all sorts, including fulminating powder		P	22
<b>3</b> 5	FLAX, AND ABSTORES MADE OF FLAX, including lines thread		,	
38	FURRYURE, TACKER, AND APPAREL, not otherwise described, for steam, sailing, rowing, and other vessels		p	.
27	Gum, Gun amunq, and articles made of gum or gum- resin—			
	Copal	owt.	20 0 0	] :
	Outch and gambler (natural) Gambogo	D	1 12 0	"
	Gun Azmenisc	cwt.	80 0 0	"
	" Arabic	**	16 0 0	
	Bolamin ras	owt.	34 0 0	, m
	alzwos		80 0 0 28 0 0	"
	Bysabol (course myrrh) Offbesom or translanence	ewt	12 0 0	Fiv
	, Peculan (tales)			per or
	Myrria Rosta	i .'	30 0 0 10 0 0	1 "
	All other norts of gume, gam-resins, and arbides made of gum or gam-resin, including escurichous and gutte-purchs		ed palores	
30	ta in the second	1	}	1
-	therefrom marries blood, the extension whose	1	1 -	٠,

# Schedule IV -- (Import Tariff)-centd

No	Names o	d Articles	Per	Tariff Valuation.	Duty
		UNMANUFACTURED CTURED—cond.		Ba a, p	
39	Hides and Skins (except a which are free) including gold beaters skins, an index or skins	aw or mited hides and skins, ing parchment and vellum d all other descriptions of		ad valerem	Five
<b>4</b> 0	Horn			(	per cen Free.
	articles made of no	t otherwise described		ad valorem	Five per cent
41	thereof—Computing, I Drawing Educational Galvanie, Measuring phical Phonographie, materials for Photographie, and all other sorts, excet and apparatus and past by or under the orders any instruments, appar imported by a passenge baggage and in actual us bis profession or calling instruments (other the imported by a Native regular forces in India Service Troops or by a I certified by the Officer or unit or the officer in c Battalion to be for the I regimental band, or the	Miestric Electric lighting Musical, Optical, Philoso-Photographic (including aphy) Srientific Surgical Telephonic, Typewriters, pt Telegraphic Instruments at thereof, when imported of a railway company and atus, and appliances when er as part of his personal se by him in the exercise of which are free All band an stringed instruments) regiment of His Majesty's or by a unit of the Imperial difficary Pothee Sattafion, and Commanding the regiment commanding the regiment commanding the regiment and the country of the Military Pothee Sattafion, and the country of the Military Pothee Sattafion, and the country of the Military Pothee Sattafion, and the country of the Military Pothee Sattafion, and the first part of the Military Case may be and the follow			
	Cardholders.	ments. Ligatures for reed instru-		}	]
	Carriages (brown or black)	ments. Mouthpleces and cape therefor			Į.
	plecas.	Mutes for brass instru- ments.			ļ
!	Chies (leather or wooden) Chanters pipe and prac- tice.	Pipe tassels for bagpipes. Reeds,			
	Cleaners for brase and reed instruments.	Ribbons for bagpipes. Ropes for drams Sanks and stides for brass			ļ
	Cord for bagpipes	Sanks and stides for brass instruments,		}	
	Crooks, Drenes for bagpines	Silver buckles for drums,		1	
	Drum heads. Drum sticks.	Bilver buttons for drums. Springs.			}
	Drum fiesh hoops. Fingertope Green broaduloth for drums	Shares. Tape for brass instruments. Valve cocks.			
	Ofeca Milk ribbon for	Valve tops and needles.		•	

### Schedule IV -- (Import Tariff)-contd

No.	Names of Articles.	Per	Tariff Valuation	Dety
	OTHER ARTICLES UNMANUFACTURED AND MANUFACTURED—contd.	-	Rs. a. p.	
42	IVORY AND IVORT WARE—		'	
	Unmanufactured— Elephants' grinders traits (other than bollows, centres, and points) each exceeding 2010 in weight and bollows, centres, and points each weighing	cwt	300 0 0	Five per cent
	10fb and over Elephants' tusks (other than hollows, centres, and points) not less than 10fb and not exceed	,	<b>900 0 0</b>	,,
	ing 2050 each, and hollows, centres, and points each weighling less than 1050 Riephants' tasks each less than 1050 (cthor than hollows, centres, and points)	<u> </u> 	700 0 0 450 0 0	, `
	Sea-cow or moye teeth, each not less than 41b Sea-cow or moye teeth each not less than 31b and mder 41b Sea-cow or moye teeth, each less than 31b	n	175 0 0 150 0 0 190 0 0	и и
43	All other sorts, manufactured and unmanufactured  JEWHLIERY AND JEWELS, including plate and other  manufactures of gold and silver—		ad valorem	
	Silverware, plain other than cmbound or chased European All other norts, except precious stones and pearls, unset, which are free	tola ,	1 2 0 1 6 0 ad valarem	, 
44	Jute raw " articles made of, except second-hand or used gunny begs, which are free		ad valorem	Free.
45	LEATHER, and articles reade of leather including books and shoes, harness and saddlery, except saddlery of a military pattern imported by an officer of His Majesty's regular forces and forming part of the equipment with which be is required to supply himself under Army Regulations, which is free Marr			per cent.
47	MANUEES of all kinds including animal bones			Free.
48	Oncarn, also bran, fodder and cattle-food of all kinds	1		
49	Official App Floor-ctors Including linerasts, lineleum, and farpaulius	}	ad valorem	Five
50	thous for application to leather, wood and metals— Lead, red, dry	cwt.	20 0 0 22 0 0	per cent.
	white, dry Ochre, other than European, all colours Paints, composition	"	ad valorom	;
	patent driess Turpentine	Impea al	8 0 0	n
	Verdignis Vermilion, Carton	boox of 90	ad salores. 110 0 0	11
	Zino, white, dry All other serie including the and putty	bundles.	ad valorem	4

# Schedule IV -(Import Tariff)-contd

52	OTHER ARTICLES, UNNANUFACTURED AND MANUFACTURED—const  PATER, PASTEBOARD MILLBOARD, AND CARDBOARD of all kinds including ruled or printed forms and account and manuscript books labels advertising circulars sheet or card almanacs and calendars Christama Easter and other cards including cards in booklet form including also waste paper and old newspapers for packing but excluding trade cata logues and advertising circulars imported by packet book, or parcel gost, which are free PAPER, articles made of paper and papier mache  PREFUMERY— Gowla husked and unhusked  Kapurkachil (zedcary) Patch leaves (patchouli) Ross-Dawer dired	c #t	ad valorem	Five per cent
52	circulars sheet or card almahacs and calendars Christmas Easter and other cards including cards in booklet form including also waste paper and old newspapers for packing but excluding trade cata logues and advertising circulars imported by packet book, or parcel post, which are free PAPER, articles made of paper and papier mache PAPER witches made of paper and papier mache Cowla husked and unhusked Kapurkachri (xedcary) Patch leaves (patchouli) Rose-Dewer dired	ረዥኛ		
13	Gowla husked and unhusked  Kapurkachri (xedcary) Patch leaves (patchoull) Rose-Bwerr dried	c#t		
	Patch leaves (patchouli) Ross-fiewers dried	1	60 0 0	
	Rose-water	Imperiar gallon	20 0 0 15 0 0 25 0 0 2 8 0	}
54	All other sorts, except perfumed spirit (for which see Schedule III) PRITCH TAB AND DAMMER— Ritumen		ad valorem	
54	Dammer Pitch American and European coal			N M
34	Tar American and European ,, coal mineral			Free
55	PLANTS AND BULES living, also dried for herbaria PRECIOUS STOYES AND PRARIS, unset (including the atones generically known as Cambay stones such as agates, cornelians, and onys.			Free
50	PULP of wood straw rags paper and other materials			'
58	PRINTING AND LITHOGRAPHING MATERIAL, namely present type link, brass rules composing stricks, chases, imposing tables, and lithographic stones stereo-blocks, roller moulds, roller frames and stocks roller composition, standing servey and not present, perforating machines gold blocking present stereokylping appearatus, metal furniture, paper folding machines, and paging and numbering machines, but not including paper			<b>H</b>
59	RACKS for the withering of the leaf			a
60	BAILWAY MATERIAL for permanent-way and rolling stock, namely cylinders, girders, and other material for bridges, ratis seepers bearing and fish piates, fish holts, chairs, spiker, crossings, eleeper fastenings switches, interlocking apparatus, brake gear couplings and springs, signals, tern tables, weigh-bridges engines, tenders, carriages, wagons traversors tralles, treeds, and component parts thereof also the following articles when imported by or under the orders of a railway company namely, cranes, water reases, water tables, and standards, wire and			

### Schodule IV -(Import Tariff)-contd.

_	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>			
Yo.	Numes of Arthries	Per	Tariff Valuation,	Daty
	OTHER ARTICLES, UNMANUFACTURED AND MANUFACTURED—sould.		Ra в р	
	Provided that for the purpose of this execuption "railway" Incana a line of railway subject to the provisions of the Indian Railways Act, 1890 and includes a railway constructed in a Kative State under the suscrainty of His Majesty and also such trainways as the Governor General in Council may by notification in the Garstie of Insits specifically include therein			
61	BEERDS, ercopo oil-seeds imported into British India by sea from the tertifories of any Native Prince of Ohief in India which are free— All sorts		ad valorem	Five per cent.
62	SHELLS AND COWNESS-			
	Chanks—large shells for estuces		}	,
	, white, live dead	,		"
	Cowries, bastr common yellow superior quality hadden Sankhil	cwt.	4 0 0 5 0 0 7 0 0 140 0 0	, , , ,
	Mother-of-pearl nacre Nakhia	ewt.	105 0 0	Five Five per cent.
	Tortoise-shell	110	13 0 0 5 8 0	, ,
	nakh All other sorts, including articles made of shell not otherwise described		ad suloross	מ
63	SHIPS AND OWNER VERSELS for inland and harbour navi mation, including steamers, launches, boats and barges, imported entire or in sections			Free
64	SILE AND ARTICLES MADE OF SILE Bokhars	120	600	Five
	Floor		ad valoress	. ,,
	Piece-goods Sewing thread, China Raw silk—Yellow Shanghai, including re-rected from Indo-China, and places in	Тb	500	3
	China other than Shanghal including re-rested	.,	5 9 0	,,,
	Mathow Penjam	72	8 8 0 2 8 0	
	Persian Siam	29	489	
		P1		-
	White Shanghai, Thomkoon or Duppion of ther kinds, Including the collection of Colors including		644	
	to-todey	**	7 4 0	١ ـ ا
	Waste and Kachra All other sorts, incinding coccous		ad solones	10 M

### Schedule IV -(Import Tariff)-contd.

No.	Names of Articles.	Pet	Teri ii Valuation	Duty
	OTHER ARTICLES UNMANUFACTURED AND MANUFACTURED—consid.			
66	SPECIMENS ILLUSTRATIVE OF NATURAL SCIENCE, including size antique coins and medals		}	Free
87	STATIONERY excluding paper (for which see No. 51).		ad referen	Pive
68	STORE AND MARRIE and articles made of stone and marble		,,,	per cent.
<b>60</b>	TALLOW AND GREASE, including stearine	•		jo ed
70	This CERSTS of metal or wood, whether imported entire or in sections, provided that the Customs Collector is satisfied that they are imported for the purpose of the packing of ten for transport in bulk			Free,
71	TEXTILE FARRICE, not otherwise described		ad valoram	Pive
72	Tollar Requisires not otherwise described		_	per cons
73	Toys including toy books and requisites for all games		,	,
74	Uncanatas, parasols, and succhades of all kinds			,
75	Walstine Strongs and sticks for unincitas, parasols, and sunshades of all kinds, notunted and unmounted, driving riding, and other whips, usuing rods and lines		h	l l
18	WOOD AND THEBRE (except firewood, which is free), and articles made of wood, not otherwise described			
7 <b>7</b>	Wool, raw , articles made of, including felt		ad valorem	Free. Five
78	ALL OTHER ARTICLES, manufactured or demanufac- tured, not described in this Schedule			ber cent

### Schodule V-(Import Tartif).

No.	Names of Artivies.	Pet	Rate of duty
1	Rice hushed or unhushed including the flour but not including rice bran and rice-dust which are free	gadian maund 182 lb avoir dangols weight.	Ra. n. p

New,—Unifor Act IX of 1966 a contours duty at the rate of a quarter of a pie per pound had been lovied from the 1st April 1963 on all tes produced in 1adia and experted from any contours part to say port beyond the lights of British India or to Asia. The proceeds of this cost are gaid in the Tax Coss Observation expectated under Section a of the Act, On the recommendation of this Dimensions the maximum rule of a quarter of a pie perset may be reduced.

### Botanical and Zoological Surveys.

and replaced by that of Economic Botanist to the Botanical Survey Much of the syste-matic botanical work of India is done for the department by forest officers and others. Over 2,000 specimens were obtained in 1911 12 by the officer deputed to accompany the Abor Expedition as botanist, and a material addition was made to the information available as to the vegetation of the little-known from tier region traversed.

Geological Survey - The first object of the Departer is the preparation of a general geo-logical map of I da. Arious eco lomic in vestigs love, which form an increasingly important part of the Departments work are also conducted. These notated investigation or marble and sandstone quarries for the purpose of building importal Deshi the exactinution of the Korea coal field in the Central Provinces. of p troinferous locali as in the Punjab and North West Frontl r P ovince of mitchblende areas in the Gays District. &c

Manual Survey—An important move-ment has recently been insugurated by the Rombay Natural History Society which has collected subscriptions for a survey of the manuals of ludis. This Survey was or use manimum of 1979. This survey was begun in 1981 with the object of getting together property prepared specimens of all the 
different kinds of Manimals in India, Burma 
and Cryston so that their distribution and 
differences might be more carefully worked out than had been done before, also to form as complete as possible a collection of specimens for the Society s Museum in Bombay Before the Survey started the Society had a very small collection and even in the British Museum in London the Indian specimens were very poorly represented. Three trained collectors from England are in the service of the Society and the specimens obtained by the Survey are being worked out at the British Russian and duplicates presented to the different Indian Museums In India most of the country has been worked on the West Coast from Coorg as far north as Mount Abu, also the Central Provinces, kumsou and Bengul The whole of Ce-lon has been worked, and so has a considerable part of Burma At the present time owing to the war only one collector is in the field in Sikkim the others having gone to the front. Funds for the Survey were raised by subscription from the principal Rative Oblets and some prominent Bombay clitzens the Society and the specimens obtained by the

The Botanical Survey is under the direction of the Superintendent of the Royal Botanic Survey Departments, representatives of the Garden, Oscietta, with whom are associated Agricultural and Civil Veterinty Departments, the Bocoomic Botanics belonging to the Agri and other scientific authorities whose special contents Department. In 1912 the post of attainments may be useful. It was established Reporter on Economic Products was solitated in 1902 to co-ordinate official scientific in quiry to ensure that remarch work is distributed to the best advantage, and to advise the Gov rument of India in prosecuting practical research into those questions of economic or applied adence on the solution of which the arricultural and industrial development of the country so largely depends. The programmes of lavestigation of the various departments are annually submitted to the Board for discussion and arrangement, and an annual report is published on the work done as well as a general inside on the work and the ensuing year programme of research for the ensuing year fine reports and the programmes formulated are communicated for consideration to an Ad visory Committee of the Royal Society who from time to time furnish valuable suggestions and advice

The Scoretary to the Government of India (Department of Revenue and Agriculture) is ar-officio President of the Board which includes the Director General of Observatories Superintendent of the Indian Museum the Surveyor General of India the Principal. Surveyor General of India the Frincipal, Punjab veterinary College the Director of the Indian Institute of Science the Inspector General of Forests the Agricultural Adviser to the Government of India, the Director of the Geological Survey the Director General Indian Medical Service, the Secretary to the Government of India Public Works Department, and the Director of the Botanical Survey of India who is Scoretary to the Board of Scientific Advice

The programme of the various departments for 1916 16 includes the following. The Meteorological Department will continue obser meteorological beparament with container one; stational work with pilot beloons at various stations and will also do some experimental work on vertical air currents at Agra, besides collating charts representing types of weather with notes giving explanations and references to other cases of occurrence of the same type for daily weather forecasting. In the Astronomical Department a new spectro-beliograph is under construction which it is hoped will be completed during the year. Five more seismographs two at Simila two as Calcutta, and one at Bombay, the Avline Seismograph at Kodalisand and averal instruments of local manufacture at Bombay will be kept in use during the year. A botanical survey is being carried out, and the Economic Botanist will improve and arrange his exhibits Finat breeding and plant im-provement work will be continued on wheat to become gram, fibre plants indigo oilseeds and fruit. Batomology will include general investi-gations of crop parts and especially of posts of These some prominent Bombay citizens together with grants from the Government of Legion, the Government of Ceylon, the Covernment of Ceylon, the Covernment of Burna, the Government of Ceylon, the Covernment of Burna, the Government of the Malay States, and the different local Governments as well as donations from the Royal Bockety the Bettish Massum and the Beological Society of London

The Beard includes the heads of the Meteoro
This Beard includes the heads of the Meteoroengines, peddling of rise land by double engine; The 'Indian Journal of Medical Research" was

In 1911 the sum of 5 lakhs (£88 000) out of the surplu oplum revenue was set aside as an endowment for research into epidemic diseases in connection with the Central Research Institute at Kassull. It was hoped that this sum might be largely augmented the private subscriptions. An Indian Research Fund Association was constituted by private subscriptions An Indian Research Fund Association was constituted and a good deal of work has already been undertaken Its objects are defined as the prosecution and assistance of research the propagation of knowledge and experimental measures generally in constants propagation of moverage and experimental measures generally in connection with the camation mode of spread and prevention of communicable diseases. Fresh investigations into kala axar and cholera have been inaugura ted, and an officer was deputed at the expense of the Fund to study yellow lever in the re-gions where it is endemic with a view to taking steps to prevent its introduction into India A further grans of 6 lakhs (£40 000) was made A further grain of a factor (2000) was made to the Gentral Research Fund from the optim surplus of 1911 12. It has been decided to devote to research and anti-maisrial projects 5 lakhs (538 500) a year from Imperial revenues commencing in 1918-14 A new periodical,

eagines, pidding of rise land by double engine regions of the most of the more important forms and drainage in the growing of rice study of laberitance of the more important characters of dairy cattle by mosting building up of milk pedigree in cattle by selection.

The indian Research Fund.—Scientific from the more is regionally developing in Indian in 1911, the sum of 5 lakhs (238 000) out of the surethy ording regions was set with the divance of this work of the Survey of India.—The work of the Survey of India.

Survey of India.—The work of the Survey of India Department falls under various heads, namely the trigonometrical survey topogra phical and for it surveys special surveys and explorations and map production Cadastral surveys are now carried out by the Provincial Land Records and Settlement Departments.

In 1904 attention was drawn to the defection ntate state of the topographical survey maps and a Committee was appointed to re port on the subject. To overtake the arrears of revisional survey and to secure that the man of India should be brought, no to date and revised at proper intervals they recommended a considerable increase or establishment and an increased expenditure of £210 000 a year for the next 25 years. They also made recommenda-tions for all ring the size and improving the quality of the man. After further inquiry the Government of India decided that a scale of observation to the mode would ordinarily be sufficient, reserved forests and special areas being surveyed on the scale of 2 inches to the mile and the pinch scale employed for wastr and barren tracts

### NATIVE PASSENGER SHIPS

The following Resolution by the Government of India was issued in October 1918 as a result of inquiries set on foot after the loss of the Titanlo-

"The Board of Trade made a comprehensive The pour of Frace made a comprehensive revision of the scale of boats and life-saving appliance to be provided on board ships in the United Kingdom and appointed committees of experts to deal with collatoral questions arising in the same connection Meanwhile the maritime local Governments have been consulted as to the necessity for revising the consulton as to the beceasily for revising the rules which govern vessels in British India, particularly those under the Native Passenge Ships Act, 1887, the Pilgrin Ships Act, 1895 and the Indian Emigration act 1996 which are read in the potifications detailed above. The replies the profit whith a supplier of the contract of the state of th show that while a revision is undoubtedly necessary there is a great divergence of opinion necessary there is a great divergence of opinion as to the extent to which it is required and the lines on which it should proceed. The subject is one of considerable difficulty and complexity involving a number of technical and other questions which need careful scrutiny. The Government of India therefore decided to Government of India therefore decided to appoint a committee representative of official and non-official interests to enquire generally into the unfficiency of the cristing rules and report its view to the Government The committee consisted of the following President My. C. G. committee committee or the following Fresh dent and members —Freshelm Mr. C G Todhunter I.C.S. Collector Madras Presidency Members—the Hon hie Sir Essuibboy Carrier biory Ebrahim, Bombey, Commander C J C

Kendall D.50 R.I.M Port Officer Calcutts, Mr W H. Ogston partner in Messrs Killick, Vixon & Co Bombay Captain P Dest Cronix Marme Department, British India Steam Navigation Company Calcutta.

The Committee met at Bombay and subse quently visited other ports. It was to submit its report to the Government of Ind a on the 1st March 1914, but the report has not been published

Difficulties of the Question—The appointment of the committee was welcomed by the Press, though some criticisms were directed against the apparent narrowness of the coope of the inquir. The whole subject is one of considerable difficulty and complexity. It is well known that the standards laid down under the enactments now in force are not adequate to provide accommodation for all on board would be inviduous to specify any one vessel to Illustrate the inadequacy of the present stan dards, but it may roughly be said that, on the assumption that the cubic capacity which should be provided in life boats should be at the rate of ten cubic feet per adult, the accommodation now provided will only afford room for 20 to 50 per cent of the number of passengers carried The question is further complicated by reason of the fact that of a number of native by reason of each sace one of a number of master passenger ships many are news root of alght of land during their voyages and that any masternee on the principle that there should be like-host accommendation for all on board will necessarily result in the ourtainment of the

carrying capacity It is doubtful therefore whether, is the one of passenger ships which are enjaged in the sarriage of passengers between ports reparated by inconsiderable districts about not be allowed in the matter of providing lite-best accommendation for local investigation.

Working of the Act.—Under the Native Passenger Ships Act (X of 1887) the term "fixive Passenger Ships Act (X of 1887) the term "fixive Passenger Ships" is applied to sating-ship which carry as passengers nore allowed and twenty hours or more and a shert voyage as one in which the ship will not, in orderary and the carry as passengers nore to be madered and twenty hours. The space sating-ship which carry as passengers nore to be madered and twenty hours. The space than thirty natives of Asia or Africa, and to those differ in a long and a short voyage

### TIDAL CONSTANTS

The approximate standard time of High Water may be found by adding to or subtracting from, the time of High Water at London Bridge, given in the calendar, the corrections given as below —

		¥	¥	1		H	H.
Openitar	sub	0	32	Rangoon River Entrance	н	1	85
NoMe.	add	1	84	Penang .	sep.	1	39
Karacht	end	Ž	33	Singapore		8	25
Bombsy		1	44	Hongkong		4	27
Sos		2	44	Shanghai	11	0	84
Point de Galle	add	0	12	Yokohama	<b>वर्त</b>	8	•
Madres	amb.	ŏ	6	<b>Valparais</b> o	a sab	4	40
Onloutta	aub	0	19	Buenos Ayres	वर्वर	4	0
Rangoon Town	add	2	41	Monte Video	н	0	83

### Wild Animals and Snakes.

In the 25 years ending in 1911 the number of human beings reported to have been killed in British India by wild animals was 67 389 There was a slight decrease in the number and by snakes 543,994 making together a total of 611,885 but the figures are in from command togs and jackals were included in the results of the strung but as these animals are not ordinered to the strung but as these animals are not ordinered to the strung but as these animals are not ordinered to the strung but as these animals are not ordinered to the strung but as these animals are not ordinered to the strung but as these animals are not ordinered to the strung but as these animals are not ordinered to the strung but as the strung man dogs and person were included in the returns, but as these animals are not ordi-narily dangerous to human beings or cattle the figures have been omitted since 1801. The annual average number of persons killed during successive quinquennia since 1876 is as follows:—

				By Wald animals	By makes
Five	years	ending	1890	3,090	17 214
**		μ,	1885	2,752	19 605
,,	**	,	1890	2,581	21 267
,,			1895	2,925	21 054
			1900	3 456	22,175
			1905	2,461	22,296
17	,	n	1010	2,210	21,571
				1	

During the year 1914 1745 persons were killed by wild animals in British India This figure is about 8 9 per cent higher than the casualties in 1918 but it is lower than in 1910-12. The largest death-roll as in 1913 was returned by Bihar and Orises which was responsible for nearly one third of the total for all India The figures for other provinces generally exhibit increases but in the United Provinces the num ber of casualties dropped to 122 from 137 in 1913, while there were trivial decreases in the Bombay Pyrsidency and in the North-West Frontier Province Coorg and Ajmer Merwara which returned biank atatements in the previous year, record 1 and 3 deaths respectively in 1914.

The largest number of deaths of human beings was as usual, caused by tigers, which were responsible for the loss of 646 lives as compared with \$41 in 1913 Increases under this head occurred in Riber and Orises the Central Provinces and Berar and Assam, the central provinces and peter and Assaul, the fractaneod province with 220 deaths against 251 in the preceding year slowing the highest figure The deprecations of a man-sater in the Ranchi district were responsible for a large the Manchi district were responsible for a large was a considerable interested in the number grouperion of the fatallities. All other provinces of marked destroyed the Egures for 1914 and oxiver Economy, which reports 3 deaths as in 1915 being 118,515 and 93,186 respectively the last year, show a decline the mostmarked. This difference was mainly force to the increase being in the United Provinces, where the number of nearly 28,100 over the last year's total in has fellen to 2 from 50 in 1813. There chained. Burms, where foods are belleved to latve continued to the continued of

in Burms Of other animals leopards were responsible for 231 deaths against 236 in 1913. There was a slight docrease in the number of human beings killed by bears, where and elephants the figures under these heads being 95 137 and 57 against 105 152 and 62, res-pectively in 1918. To hyenas were attributed 27 deaths or 18 more than in the preceding year. The number of deaths recorded under the unclassified head 'other animals' rose from 395 in 1918 to 503 in 1914.

The loss of human lives due to anaka-bite The loss of human lives due to granks-bite amounted to 22 894, the corresponding figure in 1913 being 21 770. The returns under this head show a general increase in nearly all the provinces and as in 1913, Bihar and Orissa with 5936 deaths the United Provinces with 511 and Bengal with 4,856 andered most heavily Of these there provinces Bengal shows a slight decrease while in the other two provinces there was an invesse there. two provinces there was an increase compared with the preceding year Decreases are noticed in Madras and Assam and no death is reported from Coorg, but the mortality of 1169 in the Punjable the highest for that province recorded in recent years. In the last usuned province substylers were the greatest source of danger and special measures to exterminate them have been organised. The use made of Sir Lander Brunton's lancets does not yet afford any useful data on which definite conclusions can be formed as to the efficacy of this method of treatment

The number of cattle reported to have been killed by wild animals totals 94,746 and is slightly in excess of the agure for the preceding year Assam with 17 739 deaths. an increase of 1 007 over the last year's total an increase of two over the last year and risas with 16 105 comes next. In the former province, the increase is believed to be chiefly vance the increase of believed to be enterly due to better registration. Leopards were as uaus, responsible for the largest number of kills and claimed over 50 per cent of the total mortality Of other animals which figure largely in the destruct on of eatile figure accountcd for 30 418 deaths and wolves for 10 115. Ten thousand nine hundred and thirty nine head of cattle succounded to snake bite during the year under review as compared with 10 542 in the preceding year

During the year 1914 25,003 wild animals reported was 24 650 The figures for 1914 included 1481 tigers 6 557 leopards, 5,078 bears and 3 068 wolves The total amount paid in rewards for the destruction of wild animals was Rs 1 91181 which exceeded the sum so disbursed in 1913 by Rs 576 There was a considerable increase in the number of anakes destroyed the figures for 1914 and 1913 being 118,518 and 36,188 respectively. This difference was mainly due to the immeasure of the sum of During the year 1914 25,003 wild autually

### India and the War

### **HOSTILE FIRMS**

It was early realised in India that the adoption for all purposes, of the classical definition of an enemy would not be sufficient to meet all the polit eat difficulties involved, and on 14th Rovember 1914, with the approval of the Secretary of State the Hostile Foreigners(Trading) Order was issued The saltent feature of this order was the definition of a bostile foreimer order was the deminded of a landing love with out reference to the question of residence. It further gave an absolutely free hand to Gov ernment in doubtful cases by defining a hostile firm, as a firm of which a hostile foreigner had been a member or officer on August 3rd, 1914 All such firms or foreigners were forbidden to trade except under a Hoense The right to refuse such a Hoense or to impose any conditions whatever vested solely in the Government of India. In the event of a license being refused the business agrees had to be deposited with Government for disposal at their absolute discretion It will be seen that the immenso ascore of the definition of a houtle firm brought within the purview or the order numerous British and neutral firms who happened to have German shareholdern, or perhaps a German subject as branch manager. To meet some of these cases a general exemption was issued in tayour of companies who had no hostle foreigners as officers and merely had capital of amount less than one-third of the whole in enemy hands. An exemption was also made on political grounds in favour of Asistic subjects of Turkey In other cases where the interests involved were mainly British licenses to carry on teads were given subject of course to the provisions of the Royal Proclamations

There remain the cases on which public attention has naturally been focused, where actions and manufactured the interests in volved are mainly or entirely hostile. It was considered desirable that these businesses should be wound up as far as possible and though the Order gave power to Govern ment to take possession and themselves to conduct the liquidation. It was considered more satisfactory to insue to these firms licenses which restricted their operations to winding up and subjected them to a stilct control. proceeds of such liquidations are being held by Government, and though their total agure has not as yet been made public, it must run into several crores of rupees.

The great majority of firms of this class are of Gorman origin, and their principal strong holds in India have been in Bombay Calcutta and Rangoon Eisewhere in India the chief feature of their enterprise has been the success feature of their enterprise has been the success fall way in which they have fostered indisences of the success of the success of the success of the success of the Basel Blesion whose products, notably their roofing thes are familiar through their roofing the are familiar through ent the west of India, Apart from these cases, where realignose and commercial endeavours bere near hand in hand, the forman has not being the success of the first form formany bere near hand in hand, the forman has not being success in Bombay. Notwithstanding the

mofussil. A few planters, a few shopkeepers in the larger towns a bortel proprietor or two are to be found, but there is no special line that they have made peculiarly their own These small businesses have been either wound up or placed under Government control in practically a rry case. The men of military age have been interned and those outside the age limits and the women and children for the most part repatriated

The more striking features of Teutonic com mercial enterprise at the three great ports are different in each case In Rangoon at the out break of war there were three large rice milia whose directors shareholders and European em ployees were almost without exception German ployees were amor without exception terms he the total value of these three properties he been estimated at three-quarters of a million sterling The largest of them in believed to have been subsidised by the German Govern ment with a view to their perpetually man taining a large stock of rice in Germany against amergencies like the pr sent

One of these rice mills has been leaged to a British firm and all payments are made by the latter to Government account The other two firms have been made to wind up their affairs their resulting balance also being deposited in the Government Treasury One or two less important Teutonic firms engaged in rice milling and a number of small miscellaneous concerns and branches of hostile firms in other parts of India have also been treated in the SAIDS WAY

The salient feature of the German enterprise in Calcutta has been the hid-export traffic In this business a ring of some half dozen German firms has of late years catabilahed a practical monopoly as they formed the main channel for the export of an important indigenous product, and as British frus have not proved anxious to undertake this exceedingly un sevoury trade these frums have been allowed to continue their business under British or neut-al management with a strict supervision by the officer appointed by Government to control hostile firms in Bengal. Other German concerns in Calcutta have been or are being wound up They are mostly small miscellaneous concerns in Calcutta Dave been or are being wound up. They are mostly amall miscellaneous businesses with two exceptions. One is a karge import and export firm which has figured prominently in the manganese trade in the Central Provinces and elsewhere. The other is a branch of a German Bank the only German Banking concern in India. It is in the hands of the Official Assignee.

In Bombay the hostile firms which have aroused most interest have been those engaged

large stocks in India at the beginning of August | 1914 the stoppage of this supply has been one of the most serious and most widely felt com mercial blows that India has suffered as a result of the war. The textile mills have suffered heavily but much more serious has been the case of the handloom weavers in small villagres all over India. Had dovernment been far-sighted enough to have assumed control of these stocks immediately war broke out it is very doubtful if they could have done much to assist the petty weavers and dyers whose complete lack of organisation renders help on a large scale well nigh impossible. As a matter of fact not only were Government un prepared but the commercial community themselves did not recognise the gravity of the situation until the mischief was done. By the month of November when Government assumed control of these firms three had practically disposed of their whole stock, much of which had gone into the hands of speculators with the result that prices had increased enormously In a fourth the stock was the property of a neutral and the fifth alone had a considerable balance Part of this was distributed among the textile mills and a further quantity sold retail to the smaller consumers. This latter polloy did not prove very successful and on the arrival in Bombay of a captured German steam ahip with a considerable quantity of dyes which had been condemned as Prize of War and Were to be sold accordingly it was decided to auction balance (about one-sixth of the original atock, after reserving a further supply for di-tribution to the textile industry. Prices at this auction though considerably exaggerated in the Press of the day were none the less terviligh and the profits made over the sale of this firm a stock as a whole must have been considerable These funds are of course all held by Government at present and one of the difficult problems which Government will have difficult problems when the terms of peace are under consideration will be the disposal of these profits. In addition to these dye items there were in Bombay several considerable import merchants and a number of smaller concerns of a hostile nature to whom also the closure has been applied

The policy adopted by Government in the anter of loadie firms has come in for a good deal of criticism, largely be it said, from mus informed quarters. The view of the average patriotic Briton is wind them up completely but many critics who have volored this cry have overlooked the fact that to wind up a concern necessitates not only the payment of all its liabilities and the sale of all its stock, but also insummers and the sale of all its flock, but also the collection of all its debts. The man in the street would no doubt like to see Germany after the war with neither debts nor liabilities

the war naturally resents being forced to pay his debts to a German firm, even though the firms moneys are held by Government. In this matter Government has adopted a middle course Hostile firms in liquidation have been allowed to collect their debts, but coercion has only been allowed when there were corresponding liabilities to be met and a number of firms have been closed down after numer of neus have over cosed down aver allowing them a nasonable period with a proportion of their outstandings left under what is in effect a moratorium till the end of the war. The question of the ultimate disposal of the balances realized is naturally one which cannot be decided during hostilities. Meanting cannot be decided during hostilities. Meanings the v have been at the disposal of Government for temporary use Their total amount has not at the time of writing been made public but there is no doubt that the 4 core loan Boated during August 191, might, but for these balances have last to be much larger

In considering the total volume of trade handled by hostile forekners one is struck by the fact that it represented before the war only a comparatively small proportion of the total trade between India and Germany and Austria. The dye business was done almost entirely through Germans but apart from this particular line the bulk of imports from and exports to Germany and Austria passed through British or neutral firms in India. The ultrapatriot ones out for a complete boycott of goods from these countries after the war. This policy will hardly appeal to thinking men. It is almost on a par with the brillant suggestion put forward in a reputable Anglo Indian news paper that it should be made an offence to be in possession of G rman made goods. Any such goods found were to be sold immediately on the conviction of the owner. No suggestions were made as to the treatment of the purchaser No the victorious allies will not serve any good purpose by attempting to annihilate the productive power of ferminy and Austria. The Tautonh Empires once the cancerous growth which has vittated their whole being has being explect. Will still constitute a body eminently useful for the economic service of the world at large But this body must be confined within limits and the moral to which a consideration of this question of hos its trade in India points is that the Teutonic body can be made a thoroughly useful servant, even though its activities are confined to its own territories In other words India can do just as big a trade with termsny as before without a single German being allowed to reside in Inda. In every branch of trade with Germany and Austria except the dye business the bulk of the produce is handled by British and neutral concerns When the war is at an end trade must be re street would no doubt take to see termany when the war is as an end trade must be reader to war with neither debts nor liabilities; sumed with the enemy Power, but there is in India. But his brother in the next street in reason why any German or Austrian should whose buthers has eithered from the offects of ever again reside h this country of his profit.

### THE WHEAT SCHEME.

The circumstances which led the Government in ordinary circumstances, therefore India of India to wedertake the control and market might have looked formed to a brick season ing of the Indian wheat exports were peculiar with the internal prices at a reactable rate. There was a very large wheat crop in India in But the economic disturbances set up by the the season 1914-15 and the surplus available war and the operations of speculators produced for export was estimated at two intilled tons a complete bone were interest. The supply of ready

whast is India was cornered and the prices forced up to fundate lovel. At the same time there were large operations in the new crys. The great what-eating provinces in India are the Panjah and the United Provinces In parts of the Punjah wheat was forced up to six seers a rupee which is a rate which inflicts severe distress on the constitute class and the There had been widespread agrarian trouble in the Western Punjab, which whist inflamed by romotors of the war nevertheless was largely removes of the war he vertices and experienced off examed by the high prices and experienced off ocus were convinced that if the progressive rise in values was not checked there would be exten we rioting and looting of grain shops in the Puniab and the North-West generally Gov erament were pressed to take two courses—to prohibit the export of wheat until prices came down to the level of nine seem per rupes and on the other hand to let the market take its course, on the supposition that the high prices realised by the growers would compensate the consumers for the famine prices which they had to pay for their food. The unofficial view of the question will be found reflected in an interesting debate in the Imperial Legislative Council General In the Imperial Legislative Councils) As a preliminary step the export of wheat from December to March was limited to 100 000 tons (82,000 tons only were shipped) and in March all argorts on grivate account were prohibited for a year These were temporary measures (lowersment took a quite different and even more heroit course—they took the whole of the export trade under their own control.

The Official Policy—The official policy was outlined in the attenment of the Member for Commerce during the debate to which reference has been made. It was afterwards published in an official communique which set out the following facts—The latest forecast of the crop which is now heing harvested in India shaws an area of 32,148,000 acres under wheat and an estimated yield of 10,228,000 tons which is in excess of the previous record of 10,001,000 harvested in 1911, and compares with 27,607,000 acres and 8 427,000 tons last year. If this forecast is approximately fulfilled, there should be an exportable surplus from the present crop of atleast 2,000,000 tons in excess of the second Indian communities. The prevent this surplus from finding a market would, on the one hand, have deprived India of a very valuable export in a year in which sums of her other rapic exports have been unfavorably affected, and have deprived her wheat entitivators of their legitimate expectations of profit, with the result of influencing adversely the area to be sown for wheat in tuture years, and on the other hand, it would have described the area to be sown for wheat in tuture years, and on the other hand, it would have described the trutted Kingdom of a source of supply sa which, in the present circumstances she is legacy dependent.

The problem which presented itself therefore was to place it within the power of the Government of indic to affect a divorce between the ladies and the world-price of wheat (whenever the conditions of the wheat markets in India and obsorbers may render this advisable), without himsering the singuient to the United Kingdent of India's a spaciable surplus in such quantifies and at specimenous of the year as night

have been anticipated in the absence of regulation.

The policy which has been adopted to this and is as simple as the conditions of the problem permit. The Government of india have prohibited absolutely the export of what from India on private account for the whole period up to March 31 1916. The firms ordinarily engaged in the export of wheat from India to whose willing co-operation and advice the Government are much inde the do have been appointed the agents of Government for the purpose of earrying on the trade under the orders and for the account of the Government of India. The maximum price to be offered by these firms to Indian sellers instead of being regulated by the price ruling in Loudon, will be determined from time to time by the Government of India and announced on their authority and as the season programses these maxima will be gradually reduced so that there can be no inducement to speculate for a rise or to withhold supplies. The maximum price will be the maximum at the port and firms must only offer upcountry such prices as with the addition of the railway charges, will not exceed this maximum maximum will be fixed for the yarlous recognized mixed multites of Indian wheat:

The working of the scheme in India will be supervised, subject to the orders of the Government of India by Mr. M. S. Gubbay Indian Civil Service Supervision in London has been entrusted to the Indian Wheat Committee which is constituted as follows—Lord Lucas (Chairman), Mr. E. H. Rew (Board of Agriculture and Flaheries), Mr. F. C. Drake India Office), Mr. J. M. Keynes (Treasury) Mr. A. S. Gaye (Board of Agriculture and Flaheries) Mr. E. G. Saltmarsh (The Baitle) the Secretary being Mr. H. D. Vigor, 3, St. James's aquare

being Mr H. D Vigor, a, on wearness.

For the chartering of freight the Indian Wheat Committee have secured the services as broker of Mr Percy Glanville of the firm of Messra, Neison Donkin and Co who has set up a separate office at Exchange-chambers St Mary Axe EC for the transaction of this business, and will devote the whole of his time to it. The firms which bought the wheat in India will sell it in the United Kingdom at market rates, on the London Corn Trade Association Contract or other customery official contracts. The normal trade channels for marketing wheat in this country will be regularly employed, and the wheat will not be sold at an artificial price. A Committee representative of the agent firms has been set up in London for committation day by day regarding the sale of the wheat.

Any print, after payment of all charges, arising out of the difference between the sale of the wheat at its natural price in Loadon and its purchase at the officially regulated price in India will form part of the revenues of the Government of India.

Scheme Approved.—Whilst there was naturally some criterism of details the scheme as a whole was almost and wantly approved. The chief criticism was directed to the employment of the existing wheat expecting firms as the agents of Government it being suggested that the Supply and Transport Department would be the best agency, and it was also sup-

gasted that a sliding scale of export duties would be the most efficacious measure. On one point only however was there any real controversy. The Government of India had laid down that they would interfere as alltile as possible with the existing channels of trade. This was one of the reasons, amongst others, which induced them to place the practical details of the working in the hands of the recognised exporting firms in ordinary years exports of this character are financed through the Exchange Banks which had itsid down funds in India for the purpose It was urged that the finance of the exports should be done through the Exchange Banks. Acting it is understood on the advice of the Treasury, the Home Government decided to make the exports through direct Government agency. The reasons for this course were laid down in a communique which said.

On this matter discussion has been necessary between the Secretary of State for India the Government of India and the Treasury, who (as guaranters of the Indian revenues against met loss) are interested in the financial arrangements. Various schemes were put forward with the object of securing that the drawing and asgociation of bills of exchange which take place in normal years when the wheat trade between India and the United Kingdom is conducted on private account should not be interrupted or diminished.

If the object of these schemes could have been attained without cost to the taxpayer, there would have been no hesitation about adopting one or other of them and thereby avoiding in terference with the want source of financial business. But examination showed that any schemes would have involved expenditure (of which the ultimate incidence would have been on public revenues) for interest and other charges incidental to the making and negotial about of biles of exchange while it was not necessary to have recourse to outside funds since it is estimated that the halances of the Government of Indias and the Secretary of State for Indias will suffice to provide for the outlay on the purchase of wheat

The Secretary of State has therefore decided that the Government of India shall place funds from their own recourses at the disposal of the agent firms. This arrangement has the advantage of simplicity since transactions between England and India in comexion with purchases to be made and paid for in India will be avoided.

Special arrangements will be made in respect of any sums movided by the apont firms for the purchase of wheat on Government account before the publication of the above, decision. The firms will have the option of taking repay needs either in India or (at the rate of is 4d, the rupes) in Ringland in the latter case pay ment will be made at the date on which a demand bill would reach Ringland.

This decision was very hotly criticised. It was argued that it was no real comount also that it was responsible for a break in exchange and a large demand for sterling bils on London, of Heverse Councils as they are now called Farthers, it is approachly descroyed the means of issuitable of oration because who depend on this boundary, that insenses as the British.

Treasury had guaranteed the Government of India against less whilst agreeing that India should take any profit, the decision of the Treasury was final.

A Successful Pelicy —Ne official pronouncement embracing the working of the scheme as a whole has been made. Consequently we are thrown back on general results in attempting to deelde how far it has succeed ed. So far as these go they indicate that the scheme was a complete and triumphant success It stituined its primary purpose the steadying of prices in India From the moment when Gov.rament positioted experts the upward trend which had been continuous was arrested and a progressive decline was noticed. At the same time it achieved its complementary purpose—to place the undoubted indian surplus at the disposal of the population of the United Kingdom. It is understood that approximately six hundred thousand tons of Indian whost were shipped to England.

Whilst accomplishing these cuds the scheme seemed a good profit to the cultivator, which is estimated at twenty five per cent above normal. The Government price never worked out at less than three rupess eight annas per manud at Lyalipur the great wheat market in the Punjab and in normal times the cultivator is satisfied if he sells his crop at three rupees. The average price paid by Government was four rupees fourteen annas and they paid as much as five rupees twilve annas.

With the single exception of the disturbance to exchange the working of the s. heme in India was smooth and uneventful. It is believed however that the anticipation of a large profit on the transaction—ambitious people saw a profit of a million or two in it—were not realised. The highest price paid by Government was five rupees twelve annas a maund F O B the direct consignments were sold in London at the first consignments were sold in London at the first consignments were sold in London at the first consignments were sold in London at the first consignments were sold in London at the first consignments were sold in London at the first consignments were sold in London at the first consignment was the landown price of sixty-sevenallings a quagrer. But the Home Whest Committee held on too long and when the unexpected break in prices occurred they saw their prospective profits disappear. Then Government carried their own insurance two of the wheat align were sunk one by a submarke whilst another was wrecked when approaching the Morsey. The net profit on the transaction to date—December 1915—is satimated at £130 000

The erretic character of the monsoon of 1615, especially in the north west of India, which is the grack wheat-growing tract caused a bardening of prices, which touched a value at which it did not pay tiovernment to buy and ship The Government organisation has however been melutained and will be maintained after April 1915 so that there will be no incentive to appear lative manipulation of prices on the expectation of a toreign demand at almormal races. The Government rate still in force (December 1915) is four rupees, ten annas nine pres, though it is understood that no transactions are being not through at that rate. Where then wheat has not come forward at the Government price the price has not been raised by the foreign demand. It cannot therefore be urged that

the Indian internal price has been forced up by obvious point but the causes leading to a rise the demand to most the needs of the United of prices in India are so little understood and

Kingdom Any raising of prices that has a frequently ascribed to a drain on the occurred is due to internal causes. It may food afore of the country that it has been seem elementary economics to elaborate this thought desirable to make it quite clear

The export of wheat from British India by sea to foreign countries during each month of the last four official years and during the months of April to October 1915 are stated below —

Month	1911-12	1912-13	1913-14	1914–15	1915-16
	Tons	Tons	Tons	lons	Tons
April	87 900	68,900	27 300	0 100	10 850
Меу	185 700	107 000	166 300	00د,24	(a) 104 9#0
June	189 500	243,500	260 400	169 000	(a) 291 900
July	286,200	328 000	00خ,815	1.69 500	(a) 187,570
August	120,200	15 <b>3,200</b>	184 700	42 500	(a) 47 860
September	65,800	231,500	134,800	ა6 100	(a) 5 760
October	65,700	<b>148,50</b> 0	J2 700	88 300	²80
November	74,100	114 300	46 700	ea 000	
December	97 300	79 600	21 700	37 000	
January	101,900	99 100	20 700	25 000	
February	75 200	J1 500	9 700	21 600	
March	9 <del>6</del> 700	ქა 100	8 700	8 800	
TOTAL	1 361,200	1 660,200	1,202 900	706 400	

(c) Include exports on Government account namely 94,357 tons in May and 249 952 tons in June 150,296 tons in July 36 488 in August and 2,376 tons in September 1915

### WAR AND TRADE

In the section ludian Trade (see pp 238-247) of imports exports and n exports amounted to effect of the war on the trade of India is to its 189 27 crores as against Rs 199 17 the effect of the war on the tracke of India is fully analysed The official year in India however runs from April 1st to March 31st and this review does not carry us beyond the Sist of March 1915 The latest official returns dealing with Indian trade carry us down to October 18th, and they are summarised here They show the degree to which this trade has recovered from the shock of war

During the seven months ended October 1915 as compared with the corresponding period of 1914, the value of imports declined by fix 10 48 crores to fix 76 97 crores while the total exports including re-exports and the value of wheat exported on Covernment account increased by Ra 59 takhs to Rs 112 3 crores The experts of Iss as lakes or 5 per cent and creved and 2.512 411 tone on again, increase of Iss as lakes or 5 per cent and creved and 2.725 805 tone of re-experts of Iss 3 lakes The grand total corresponding period of 1914

Imports of treasure declined by Rs 6 crores Imports of treasure declined by Re of crures to Rs is crores Gold bullion fell by Re of crores to Re 3 crores and sovereigns by Re 1730 crores to Re 43 lakins of which Re 32 lakins were on account of Government Silver bullion decreased by Re 1 65 crores to Rs 44 crores.

Exports of treasure also declined by Re 1 90 crores to Rs. 82 lakes

The tonnage of vessels entered at ports in British India from Foreign countries and British Powerslons with cargoes during the saven months April to October 1916 amounted to \$,582,077 tous, and the tonasse cleared to \$,512 411 tous as against 3,246 151 tous entered and \$723 803 tons cleared during the

April         III.4         BB         Rs         <				IMPORTS		L-YPORTE	Exports Formen Meronardier	TAMD1811	
•         11, 0.4 1.5 724         1 4 4 9 6 7 0 9         9 27 00 760         42 17 9 0 2         30 20 001           1 5 0.4 1.5 724         1 1 5 8 9 6 9 0 6         9 4 2 4 774         4 5 2 8 0 1 7         30 00 001           1 8 22,43,850         1 2 68 10 883         10 80 82 0 10         3.5 57,105         40 42 424           1 6 17 04 28 97         1 2 6 2 7 6 7         1 2 5 5 7 411         3.5 87,105         40 42 424           1 6 17 04 28 99         1 2 9 2 02 7 6 7         1 2 5 5 7 411         3.5 87,105         40 42 424           1 6 17 04 28 99         1 2 9 2 02 7 6 7         1 2 5 5 7 411         3.5 87,105         40 42 424           1 6 17 04 28 99         1 2 9 2 02 7 6 7         1 2 5 5 7 411         3.5 87,402         40 42 424           1 6 17 04 28 99         1 2 9 2 07 7 7         1 2 5 5 7 411         3.5 85 5 6         3.2 24 402         40 42 424           1 6 5 6 7 3 2 2         1 2 9 2 07 7 7         1 2 5 5 6 7 411         1 2 5 5 6 7 41         1 3 6 7 7 7         1 4 6 7 8 8 5 6 7           1 6 5 6 7 3 2 2         1 2 2 2 0 4 4 7 7 8 7         1 2 5 5 7 411         1 2 5 5 7 7 7         1 4 6 7 7 7 7         1 4 6 7 7 7 7 7           1 7 5 9 7 3 5 9 4 7 7 7         1 2 5 5 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ł	1	181314	1914 15	1915 10	193 14	1914 10	1916 16	
•         1.041.5 724         1449.63 703         027.00 760         4213 0.2         30.23 081           1.4 50 63 90.1         115.8 96 90.6         9.42.42774         49,28 0.7         30.00 001           1.2 22,43,85.0         12 08 19 68.3         10 39 80 046         3.5 35,106         40.42 424           •         14 47 61 327         14 60 30,23 0         11.11 13.341         3.5 35,106         40.42 424           •         14 47 61 28.7         14 60 30,23         11.11 13.341         3.5 37,106         40.42 424           16 17 04 28.9         1.2 92 02 77         12 3.5 67 41         3.5 37,50         40.22 424           10 6.7 78.7         1.2 92 02 73 73         1.2 83 85 68         12 24 402         40.28 835           10 5 67 52.2         1.2 70 20 20 71         11.51 31.25         14 60 71.         16 35,07           10 20 48 67 52.         1.2 92 02 71         12 83 65.8         14 6.1 80 71.         16 35,477           10 20 48 67 20         1.2 13.25         1.2 13.25         1.4 16 74 80 90 80         1.5 14 77.7           10 20 48 67 20         1.2 14 64 13 002         1.4 64 13 002         1.4 64 13 002         1.4 64 13 002         1.4 64 13 002         1.4 64 13 002         1.4 64 13 002         1.4 64 13 002         1.4 64 13 002         1.			111	Rs	RB	Re	Rs	꿆	
Per         14 20 63 90.1         11 58 96 90.6         9 42 42 774         16,28 0.17         30 00 001           Per         14 47 01 327         12 08 19 683         10 39 88 016         35 35,105         40 42 424           Per         14 47 01 327         14 10 31,230         1111 15 341         77 18 57         14 14 904           Per         10 4, 16 47         7 39 60 111         12 35 67 411         12 35 67 411         33 47 56         23 94 765           Per         10 4, 16 47         7 39 60 111         12 35 67 411         12 35 67 411         34 40 28 885         34 40 28 885           PATORITY         PATORITY         11 51 31 25         14 60 712         18 35 107         18 35 107           PATORITY         PATORITY         PATORITY         PATORITY         18 30 75 807(a)         19 67 78 646         20 88 885           10 20 48 0.20         2.1 42 86 %b         1.2 41 40 18 67         2.1 40 80 88         2.1 40 80 88         2.1 40 80 88           10 20 48 0.20         2.1 42 86 %b         1.2 41 18 70         1.4 40 18 90 70         1.4 40 18 90 87         2.1 40 80 988           10 20 48 0.20         2.1 42 86 %b         1.4 40 18 90 90 80         1.4 40 18 90 90 80         1.4 40 18 90 90 80         1.4 40 80 90 80 80         1.4 40 80 90 80 80         <	A pell		1,041,724	14 49 63 70 9	9 2 7 00 7 8 0	42.13.00.2	39 23 081	28 22 423	
Per         12 22,43,850         12 08 19 683         10 30 88 016         35,35,106         40 48 42 424           Per         14 47 61 527         14 00 31,230         1111 15 341         77 18 874         1411 804           Per         10 0, 10 647         7 30 60 111         12 50 67 411         12 54 402         23 64 765           Per         10 0, 10 647         7 30 60 111         12 89 85 658         32 24 402         40 28 885           Per         10 0, 10 647         7 30 60 111         12 89 85 658         32 24 402         40 28 885           Per         10 0, 10 647         7 30 60 111         12 89 85 658         32 24 402         40 28 885           Per         14 5 67 582         1, 36 20 740         11 51 31 2.5         34 60 11 60 28 887         10 85 40 12           Per         10 20 48 6320         2.1 12 290         12 57 507(0)         16 67 78 646         20 88 85 777           17 53 73 40         1.1 22 86 70.3         1.7 74 49 128 40         17 64 43 002(0)         17 64 47 63         17 64 43 002(0)           17 54 68 03         2.0 2 41 73 07         1.4 64 13 002(0)         17 64 47 63         17 64 48 010 78 60         97 81 906           18 7         1.7 67 67 67         1.4 64 13 00 02         1.4 64 13 00 02         1.4 6	Мау		14 30 53 943	1158 96 906	9 45 42 774	18,28 617	3o 00 001	11 70 004	
Per         14 47 61 827         14 00 310,200         1111 13,341         7 74 874         14 14 804           16 17 04 289         12 02 02 707         12 50 67 411         10 38 566         23 04 766           10 05, 14 647         7 30 80 111         12 89 85 658         12 24 402         40 28 885           14 5 67 522         1, 73 20 740         11 51 31, 25         14 60 71         10 85,107           14 5 67 522         1, 73 20 740         11 51 31, 25         14 60 71         10 85,107           10 20 48 023         2.0 41 13 296         12,27 04,698         21 40 11 676         20 80 38 387           10 20 48 023         2.1 14 28 6 443         17 49 12846         17 89,28 837         21 83,47 777           20 2 74 635         19 12,66 104         14 64 13 002         17 64 15 69         21 84 750         17 64 15 69           17 24 08 072         05 14 23 7         14 64 13 002         17 64 76 646         17 64 15 69         97 81 906           18 17 77 077         06 53 060         16 80 67 916(2)         19 80 02 876         7 98 1946           18 17 77 077         17,87 09 057         22 05 05 05 05 05 05 05 05 05 05 05 05 05	June		12 22,43,850	12 68 19 583	910 38 65 OJ	30.38,106	40 42 424	42 86,122	
Det         12 02 02 707         12 50 67 411         3.0 38 560         23 04 765           Det         10 0, 16 647         7 JU 50111         12 83 6568         12 24 402         40 28 835           14 5 67 532         11, 70 20 440         11 51 31 25.0         14 60 71.         16 55,107           21 03 1 7 624         20 41 12 296         12 27 04,408         21 40 11 576         20 80 35 387           10 20 48 020         21 04 41 730         15 07 507(a)         19 67 76 646         20 80 35 387           17 53 31 364         1.1 2.85 9.0         15 77 49 128(b)         17 64 41 730         16 67 76 646         21 89,47 77           20 2 74 635         19 12,66 114         14 64 13 002(c)         20 83 46,513         17 64 13 002(c)         21 89,47 77           20 2 74 635         19 12,66 114         14 64 13 002(c)         21 69 47 78         97 81 906           10 2 47 77 077         76 83 600         16 80 67 915(c)         19 80 02 873         7 86 19 86           10 4 77 077         76 83 600         16 80 67 915(c)         19 80 02 874         7 80 19 86	Jaly	•	14 47 61 327	14 00 30,230	11 11 11 33 31	7.13.874	14 14 804	44 91 546	1 ne
10 to 1 to 6 to 7 to 80 111   12 83 85 658   12 24 402   40 E2 8365   14 5 to 7 5 to 20 to 40   11 51 31 25.   14 60 71.   16 55 107	August		1613 04 289	12 92 08 767	12 50 67 411	Jo 38 556	23 04 765	42.95 390	
14.5 67.52   1_0.76.20 14.0   11.51.31_5.5   14.90.71_   18.55.107     FATORIY   PATORIX   PERITARMISA   12.27 04,698   21.40.71 676 646   20.80.85 587     10.20.48.020   21.04.41.780   15.75.907(a)   19.67.76.646   21.89,41.731     17.51.71.40.80.20   21.04.41.780   15.70.7007(a)   19.67.76.646   21.89,41.731     17.51.71.40.80.72   10.12.60.104   17.60.104   17.69.47.88   97.819.002     17.24.08.072   0.55.14.247   14.80.10.722(a)   17.69.47.88   97.819.002     19.47.77   77.077   76.53.040   16.80.79.16(c)   19.80.02.879   7.86.81.946     21.68.94.22   9.96.747   17,87.90.657   22.03.29.24   20.30,09.869	September		10 6, 18 547	7 39 86 111	12 83 85 558	39 24 402	40 28 885	942 60 96	47
P. A. PORE T.   TOTAL TABLE MANDER.   12,27 04,498   21 40 11 576   20 80 85 387   12 20 44 1730   15 79 75 907(4)   19 67 74 646   21 89,41 731   17 65 37 408   21 10 44 1730   15 79 75 907(4)   19 67 74 646   21 89,41 731   17 65 37 408   20 8 40,513   17 89,24 653   17 84 10 10 72 (4)   17 89,24 653   17 89 10 90 83   17 84 10 10 10 10 10 10 10 10 10 10 10 10 10	October		145 65 592	1, 36 20 546	11 51 31 250	14 90 71.	10 35,107	41 11 001	<del></del>
21 03 17 084         20 41 18 296         12,27 04,498         21 40 11 576         20 80 88 387           10 20 48 020         21 04 41 730         15 10 47 907 (a)         19 67 76 946         21 89,41 731           17 55 37 508         21 04 41 730         17 77 49 128(b)         17 89,246 53         21 89,41 777           20 2 74 635         19 12,66 104         14 64 13 002(c)         20 63 44,518         10 68 98 377           17 24 08 072         9 55 14 24.7         14 80 10 722(d)         17 59 47 588         9 78 19 002           19 47 77 977         7 65 53 000         16 86 67 915(c)         19 80 02 24         7 98 81 946           21 68 38 22         9 95 67 477         17,87 09 057         22 US 29 24         10 36,025,890			FAFORE	INDIAN MERITARD	18F	ı	OTAL EXPORTS		ine
10 29 48 0 20 4 1730 15 907 (a) 19 67 78 646 21 39,41 731 175 93 496 22 34,41 731 20 2 (a)	A pril		21 03 17 624	20 41 13 296	12,27 04,698	21 40 31 576	20 80 85 387	12 49 77 191	W
1753 33 369    1 12 86 9u3     1777 4635    1 12 86 9u3     1777 189,28633    2 188,27777       20 2 74 635     1912,66104     14 64 13 002(c)     20 83 49,513     10 68 69 68       1724 08 072     9 55 14 2u7     14 80 10 722(d)     17 59 47 588     9 78 19 002       19 477 77 77     7 66 53 000     16 86 67 915(c)     19 80 02 379     7 96 81 945       21 48 9u 22     22 US 29 24     10 36,08,580	May		19 29 48 029	21 04 41 730	16 30 75 907(a)	19 67 76 646	21 39,41 731	15 71 45,911(4)	ar 
202 74 635 1912,46104 14 64 13 002(c) 20 83 49,518 10 56 80 968 17 24 09 092 7 56 33 950 14 80 10 722(d) 17 59 47 589 9 78 19 002 19 47 77 77 75 6 33 950 16 96 67 915(c) 19 80 02 379 7 96 81 945 21 89 94 22 81 22 82 82 81 4 17,87 99 95 77 47 77 77 75 75 75 75 75 75 75 75 75 75 75	June		17 53 33 368	.1 42 86 %u	17 7 49 128(b)	17 89,28 533	21 88,27 777	1815 88 250(6)	
1724 09 072 9 55 14 24.7 14 80 10 722 (d) 17 59 47 5 58 8 9 78 19 002 19 47 77 977 7 56 33 040 16 96 07 915 (e) 19 80 02 379 7 96 81 945 21 89 98 57 477 77 77 77 77 78 78 81 945 77 77 77 78 78 78 78 78 78 78 78 78 78	July		20 2 74 635	1912,66164	14 64 13 002(c)	20 83 48,518	10 56 80 988	15 09 04 638(c)	_
19 47 77 977 765 33 000 16 96 87 915(c) 19 80 02 379 7 96 81 946 12 89 94 22 89 24 22 89 29 24 22 89 29 24 22 89 29 24 22 89 29 24 24 25 80 29 29 24 24 25 80 20 20 20 20 20 20 20 20 20 20 20 20 20	August		17 24 08 032	9 55 14 2.17	14 80 10 72E(d)	17 59 47 588	9 78 19 002	15 23 08,112(d)	
21 48 38 22 9 99 67 479 17,87 09 057 22 US 29 214 10 36,08,580	Soptember		10 47 77 977	7 56 53 060	18 96 67 915(e)	19 80 02 379	7 96 81 945	17 32 77 691(e)	
	October			9 99 67 473	17,87 09 057	22 US 29 % 14	10 30,02,580	19,28 20 668	

		Marora stoing		i	TREASURE	O.B.B
_	Imports	Exports (Foreign)	Bxperts (Indian)	Exports (Total )	Imports	Riports
	ā	¥	£	Re Re	æ	A
(I) October 1916 ,	11,51 93 255	41 11 901	17 87,00,057	18,28 20 958	68 82,849	10,84,789
1914	12,36,20 546	101,36,36	9 90,67 478	30 36,02,380	47 24,272	2 00 498
(II) Seven months 1st	16 55,66,522	34,90 712	\$1 68,88,5\$\$	28,03,20,284	3,08,45,640	51,56,029
April to 31st 0	76 96,97 155	2,61 87,162	1 09 66 70,6194	1 12,30 17 681(4)	8,15 01 869	81 86 fd.4
Seven months 1st April to Alet October 1914	87 45 79 846	2,58 49 077	1 09 12 40 319	111 70 89,390	143813.285	2.76 KS.40a
Seven months, 1st April to 31st October 1915	1 05 38 63 028	2,50 03 282	1 36 52,59 187	1,39 08 62,469	19 32.14.736	5.35 93 746
(-) in October 1915,			,			
(4) Uetabler 1834	162,72,491	+4 76 794	+7 87 41,584	+7,92,18 378	+18 58,597	+7,44,261
Increase (+) or Decrease	6 03,78,267	+6 21 189	-8 81,29 465	-3 75 05 270	-2,44,62 741	-41,91,970
let April to "let Octo- ber 1975, compared		•				
(I) Seven months, 1st April to 31st October 1914 (II) Seven months, 1st	-10 48 82 691	+3 38 082	+35 to 206	+26 28,291	-4,18,11 416	-1,94 67 890
April to 81st October 1913	-28,41,65 867	+2 83 640	-26 84 28,666	-20 78 44 788	11,17,12,967	4.64 08.332

### FINANCE.

The financial history of the year was comparatively uneventful. The official financial year closes on March 31st, and the influence of the war up to that date is set out in the section on the Finances of India (e v pp 170 194) Refer ence to those pages will show that the Govern ment of India expected to meet all the calls upon them without adding to the weight of taxation, by supplementing the usual borrowing programme. The total amount which they had to raise, apart from the ordinary sources of revenue in order to meet their requirements was £28 i millions Of this they estimated to receive £ 4 millions from the balances, £3 millions by rupes between 18, £6 millions from terling borrowing £4 millions from the lawrence fund and miscellaneous items and £14 millions by the renewal of temporary debt. The rupee loan was a supposes. The rate of interest was raised from three and a half per cent the rate of all recent rupee kans to four per cent. and the loan was terminable in 1923 It is understood that the whole smount was underwritten by the Frest densy Banks. The actual amount to be raised densy swas 5 5 cores and the total subscrip thous were six and a half croves. There is no reason to doubt that a still larger sum could have been raised if the Government of India had have been raised it the dovernment or incha has been given a free hand. In addition to this sum special facilities were offered for investment in this new four per cent lean through the Post Offices and this produced a further its 44 lakes. The renewal of the temporary debt was also easily accomplished. In India no obstacle presented itself the money was porrowed from the Gold Standard Reserve (q v.) which would other wise have remained litert. In England the India Treasury Bills were renewed But with regard to the sterling borrowing although no official announcement has been made it is under stood that it fell short of the official estimate by £8 millions, and that the Government had to go short by this sum.

At the same time it is scarcely open to doubt that the Budget for 1915-16 was framed on the saminption that the war would be over before the financial year expired. If the Government of India arred in this respect it erred in good company. If when the budget had been framed it had been realised that the close of the year 1915 would find us no nearer the end of the war than the beginning, a much more cau thous tone would have been preserved and much more rigid economy excised. As however it in sight, the screw exercised by the Finance or its became evident that the end of the war was not in sight, the screw exercised by the Finance or its sight ended on a rigid emburge on every form of expenditure that outlook is Obscurr. There is good ground for believing that a defict in the budget is included that the Maint ways, for hustance, are more than a croce of rupes above the estimate. The land revenue have the cuttings. The land revenue have the estimate. The land revenue have the estimate of the land ways, for hustance, are more than a croce of rupes above the estimate. The land revenue have the estimate in the budget is included that the Maintenance is proposed to the control of the land in the Maintenance in the Maintenance in the Maintenance in the Maintenance is also consider the months of the current that the close of the current the current that the control of the current the current that the sum of the current the current that the current the current that the control of the current that the current that the current that the control of the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current that the current the current that the current that the current that the current that the current that the current that the current that the current that the current that the current

below the corresponding figure of the previous year this is the season of the year when they are at their lowest Borne instancial critics think that special war texasion and a loan in India are inevitable others think that by outting capital works out of the budget entirely the year can be passed without either. The finant claim into the basse there is no sign that a special war tax, if it takes a form suited to Indian conditions, that is to say lift is an indirect tax and imposed only for the duration of the war, will be unpopular

Currency and Exchange. In currency Indian finance pursued a normal course Rupees and notes continued to circulate side by side and notes continued to circulate aux by small perfect freedom gold disappeared from circulation and the sovereign remained at a pre-Exchange problem is normally bound up with the remittances of the Government to meet the Home Charges Owing however to the large expenditure incurred by the Government of India in India on account of the Imperial Government the total amount to be remitted was only £7 100 000 Of this, there was remitted from April 1st to Documber 4th by Council Bills £ 6 718,026 (of this sum £1 950 000 was taken to the account of the Gold Standard Receive) leaving to be remitted from December 5th to March 31st £ 381 974 That is to say with the March 31st £ 381 974. That is to say with the three busiest months of the trade year before him the Secretary of State has practically satisfled his requirements. The weakness in exchange such as it was arose from the demand for sterling bills or Reverse Councils, rather than from ordinary councils. Owing to the decision of the Treasury to finance the Government pur chases of wheat (q v ) through Government agency instead of through the Exchange Banks, the banks that had laid down funds in India for the purpose had to transmit them to London. induced a temporary weakness in exchange though doubtless other factors intervened sterling bills were steadily sold to meet the demand and this demand ceased before the closing months of the year were entered. In all other respects the currency and exchange history of the current year was uneventful.

### Relief Funds.

On the initiative of His Excellency the Vicercy a large sum of more was raised in indigs in 194-15 for the raiser of distress caused by the war A Central Committee was formed, over which the Vicercy possibled and which included the Governor of Hears, the Governor of Bonbay and the Commander-in-Chief the members of H. H. the Vicercy Executive Council the heads of other Local Governments and Administrations and the following Butling Chiefs—Their Highnesses the Maharaja of Ribaner the Begun of Bhopat, the Maharaja of Gwalior, the Nisam of Hyder-hadd the Maharaja of Hodger, the Maharaja of Jajpur, the Maharaja of Jajpur, the Maharaja of Hyder, the Maharaja of Keeland, the Maharaja of Keeland, the Maharaja of Keeland, the Maharaja of Keeland, the Maharaja of Keeland, the Maharaja of Rewa, and the Maharana of Udaspur

79 111

62 441

Under its control an executive committee was formed and local branches were constituted. The treasurer of the Fund was at first the late Sir A. Kerr who was succeeded by Mr Heary (General Manager of the Alliance Bank of Simia) and the Joint Secretaries are Mr. F W Johnston and Major John Macken sie

Among the provincial offshoots of this fund is the Women's Branch of the Bombay Presidency Fund, which was started by Lady Willington with the object of collecting our torts for the troops and of making up quantities

Baroda

of sultable garments

The position of the Fund at the end of August 1916 was as follows —Sums subscribed in the various provinces and Vative State Azendes — R.

Bombay-	
Subscribed direct to the Imperial	
Indian Relief Fund	8,32,538
Su sombed to the Bombay Pro-	-,,
vincial Branch	37 77 314
Substribed to the Women's	
Branch	3 87 570
Madras—	
Subscribed direct to the Impe	
rial Indian Relici Fund	91824
Subscribed to the Madras War	
<b>Fund</b>	29 15 140
United Provinces	16 21 26
Bengsi	13 35 96:
Bihar and Oriesa	12,70 630
Punjab	12,54,090
Central Provinces	11 43 711
Central India Agency	9 96 416
Вепа	5 56 561
Kashmir	4,78,239
Hyderabad	4,23,20
Rajputana	4,17 4
Mysore and Coorg	1 71 5
Vorth-West Frontier Province	1 \$4,010
Assem	1,27 588
Ajmet Merwara	92 28
Baluchistan	79 111

These agures do not include subscriptions promised but not yet paid nor do they include promised but not yet paid nor up they include certain subscriptions paid directinto the Central Pund and not passed through the accounts of the Provincial Branches There is also a separate Public Works Department Branch of the Fund the subscriptions to which smount to about Rs 169 000 all of which has been credited to the Central Fund. The total amount at the credit of the Central Fund on the Slut August 1915 was Rs 80 51,480 and the amount held at the credit of Provincial Committees on the same date was Rs 20 32,229 These totals exclude the sums at the credit of the Madras War Fund and at the credit of the Bombay Provincial Branch and the Bombay Women's Branch which, though affiliated to the Central Fund, are under separate manage ment. Out of the sums retained by Provincial or State Committees in order to enable them to relieve cases of local civil distress the total shows Rs. 2.40,000 The unexpended balances

sum of about Rs. 2,40,400 expended by Provincial Committees in the relief of local civil The belence will be devoted eventually distress. to the third, and ultimately the most important, object of the Fund namely the grant of assistance to the widows and orphans of those who tance to the widows and orpozans of those who are killed or die in service to whom must logically be added the officers and soldiers nonspectized for further service. The amount which might be expended upon this object is almost unlimited and the Committee in a recent communique to the Press state they have consequently endeavoured from the first to accumulate as large a surn as possible for expenditure at the end of the war while afford ing such intermediate assistance as may be necessary Some idea of the calls which may be anticipated upon the Fund at the close of the war may be gathered from the fact that even if the war should end by March 1916, the casualties continuing at the same rate as hither to it is estimated that of British officers of the Indian Army and of the Indian Army Reserve there will, by that time have been 540 killed and 800 wounded of Indian officers 300 killed and 750 wounded and of Indian non-commis foned officers and min 9 000 killed and 25 000 wounded. It must of course by remembered that not more than 25 per cent. of the wounded in each class are likely to be so severely wounded as to be invalided out of the service. In the majority of case the wounds will be relatively dight and the men will remain on the active list. Even allowing for this fact, however there will probably be some 200 British officers nearly as many Indian officers and 6,000 Indian non-commissioned officers and men who are incapacitated by wounds for further service many or whom will need amistance from the Fund With the war lasting longer, or should the ratio of casualties become still higher the number of claimants for assistance from the Fund will be much greater than at present anticipated. In addition to the classes men tioned above there are also the widows and dependents of men serving on the Departmental Unattached Lists of the Civilian European and Anglo-Indian staff belonging to the Military Accounts Postal and Telegraph Departments. and of Sub-Assistant Surgeons all of whom may need help

All the above mentioned classes will, of course be eligible for pensions from the State and the wound and injury pensions, as well as the family pensions admissible to all ranks of the Indian Army and their families have recently been materially enhanced. Neverthless it is impossible for any pensionary achience however. impossible for any pensionary scheme however liberally framed, to meet in full the varying degrees of need which will asize and it is with the object of supplementing the efforts of Government in this direction that the Central Committee have under their consideration various schemes for the great of assistance to all these classes at the close of the war A rough estimate of the probable cost of these measures based upon the optimistic high the spring of 1915 and that the number of nametic will regular fairly constant, shows that sheart spent ill to the cold of August was shown its. 2,40,000. The threxpended belong to the constants bessed upon the optimistic which may utilizately remain over will be incandered eventually to the Contral Fund.

The total expenditure from the Contral Fund to to the list of the list August 1915 amounted in the spring of 1916 and that the number of analytic will remain fairly coordant, shows that to take must be added a required, if adequate ruled a to be granted.

### OFFERS OF SERVICE.

In the House of Commons in September 1914 a statement was made of the offers of service made by Ruling Calers and important persons made by fouring outers and important persons and associations in India. That statement (see Indian Year Book, 1914 p 617) was supple mented by Mr Commbertain Beoretary of State for India, in October 1915 As illustrative of the spirit of loyalty animating India he said that besides the Chreis mentioned last year the rulers of Nawanagar Rajkot Baria Jankhandi Akalkot Bavanur Barwani, Loharn and Wankaner have been permitted to go on active service in one or other of the spheres of operations In addition to the Imperial Service troops originally selected from among those offered contingents from the following States have also been accepted for service in India or shroad Jimagadh, Khairpur Nawanagar, Bhavnagar Janjira, Tehri Bahawalpur Maierkotia Sirmur Shopel and Iday Three hospital ships equipped and maintained from unofficial sources have left the shores of India-the Loyalty given jointly by a number of Ruling Chiefs the Madras given by the Madras War Fund and the Bengali, given by the people of Bengal The last was most unfortunately wrecked on its way to the Persian Gulf the first two have been continuously employed this year in carry ing sick and wounded between India and the theatres of war. The Airam of Hyderabad has offered 60 lakes for the expenses of one of his Imperial Service regiments which has gone to the frunt, and of the cavalry regiment of the Indian Army of which he is Honorary colonel The Maharaja of Mysore besides the .0 lakhs he had already given has offered the services of his State in many other practical ways The Maharata Sindhia of Gwallor whose health has prevented him from going to the front has made further munificent gitts in money and in kind including a motor ambulance flert and in kind including a motor ambulance flert | nistan, and of his determined levelty to the and six armoured aeropianes | The legum of | British alliance

Bhopal, in addition to large contributions to relief funds and other services, has sent 500 korans for sick and wounded Moslam soldiers Toe Gaekwar of Baroda gave 5 lakhs for the purchase of aeropianes. The Maharajas of kashmir and Patiala and the Jam of Nawa nagar besides other services are jointly main taining a hospital for officers in a house at Staines which His Highness the Jam has given

for the purpose

The Frontier States.—The offers of service by the frontier milities the proposal of the Khyber tribes to furnish an anned con tingent and the subscription by the Wazirs or Bannu of their allowances for one month to the Relief Fund are triking examples of the fact that the notab little and tribes of the borderland have been equally generous in their offers B youd the border the Chiefs of Baluchistan made valuable offers of camels, and the Shelking of Lowest and Bahrein contributed to charitable tunds in India The Maharaja of Bhutan besider offering the financial and military resources of his State contributed a lake of ruped to the Relief bund The Prime Minister Vepal added largely to the munificent girts of veget access targety to the manifect facts unentified last year and has rendered most valuable services by the military facilities which he has accorded. The Dalai Lama of Tibet as was stated last year offered one thousand soldlers at the outbreak of war his continued ympathy with the cause of the Allies is shown by the fact that on hearing of General Boths a victories in south West Air in he ordered flags to be hot tod on the hill around I has a and ups tal prayers to be offered for further victories. It will not perhap, be out of place in this con nection said Mr Chamberlain if I add that his Mainty's trovernment have received striking proofs of the friendship of the Amir of Aftha

### THE VICTORIA CROSS

The amountment made at the Delhi Durbar l in 1911, that in future Indians would be eligible for the Victoria Cross gate satisfaction which was increased during the War by the award of that decoration to the following —

On the 31st October 1914 in an action at On the 31st October 1914 in an avoice and the leberte, No 4050 Sepoy Khudadad of the 129th Duke of Coansught a Own Balachis was mith an of the parimental machine guns. The with one of the regimental machine guns detachment was overwhelmed by numbers One gan had been put out of action by a shell and the three men remaining with it were ordered to retire. The British officer in charge of the detachment was wounded Sepoy Khudadad remained working the other gun until all the other ave men of the defactment had been killed. He was wounded and has since been able to rejoin his corps.

in the action of the night of the 2.3rd and 24th November 1914, near Festimbert, No 1909 Male Burwan Stant Negl. B. Company 30th Carlwei Rifes lat Battallon when the regiment was changed in re taking and elearing

the enemy out of our trenches was from first to last one of the first to push round each succesa to tray tee takes in the tace of severe fire from lombs and rifles at the closest range Although wounded in two places in the head and all o in the arm, he continued fighting amongst the foremost and did not even report himself wounded till be met his Company Com mander after the action was over Naik Durwan Singh \cgi was summoned on the 5th December to the General Headquarters to receive hi VC at the hands of His Imperial Malesty the King

No 168., Rifleman Gobarsing Negl, 2nd Bu 39th Garhwal Rifle. For most occupi cuous bravery on 19th March, 1915 at Neuve Chapelle during our attack on the German position he was one of a bayonet party with bombs who entered their main trench and was the first man to go round each travense driving the enemy back until they were forced to surrender. He was killed during this engage mout

Associate Mile Boat, I. O. M., 38th Cooke's Connective Complete Co

### PASSPORT REGULATIONS.

The following regulations concerning pessports | British subjects will be described as such, were bound in 1915 -

- Applications for Indian Passports must be made in the prescribed form, and submitted either direct or through the local authority—(a) in the case of a resident in British India to the Local Government or Local Administration concerned (b) in the case of a resident in a Native State to the Agent to the Governor General or Political Resident concerned
  - 2. The charge for an Indian Passnort is Re 1
- 3. Indian Passports are granted to—(s) Materal-born British subjects (6) wives and widows of such persons (c) Persons naturalised in the United Kingdom, in the British Colones or in India and (d) Subjects of Native States is India A married woman is deemed to be a subject of the State of which her husband is for the time being a subject
- Passports are granted upon the production of a declaration by the applicant in the pro-scribed form of application verified by a declara-tion made by a Political Officer Maniarate Justice of the Pence, Police Officer and below the rank of Superintendent or Natury Public, resident in India.
- 5. If the applicant for a Passport be a Natur aliesd British subject, the certificate of naturaliration ament be forwarded with the form of application to the Officer empowered to grant the Passport It will be returned with the Passport South applicant through the person who may prove to be untrue they will render themselves have verified the declaration Naturalised liable to prosecution

their Passports which will be issued subject to the necessary qualifications

6 Small deplicate mmounted photographs of the applicant (and wife if to be included) must be forwarded with the application for a Passport one of which must be certified on the back by the person verifying the declaration made in the application form

- 7 Indian Passports are not available beyond two years from the date of issue. They may be canswed, as India only for four turbur-periods of two years each after which fresh Passports must be obtained. The fee for each renewal in Re 1
- Passports cannot be issued or renewed on behalf of persons already abroad such persons should be told to apply for Passports to the London Foreign Office or nearest British Mission or Consulste Passports must not be sent out of India by post
- 9 In the case of an applicant for a Passport being unable to write English a transcription in English should be placed below the applicant s vernacular signature in the form of application In the case of an illiterate person a thumb impression should be substituted for a signature on the form of application which should be certified by the person verifying the declaration

### DISTURBANCES IN PERSIA.

In the section The Frontiers, an account is given of the disturbances in Pensia due to Gar nean Agents, which caused grave preoccupation to the British and Russian Governments. The Foreign Office issued in November the following

Foreign Office seemed in Rovember the tolkowing catalogy of entrance.
Out the 12th July a party of insurgent tellessiss advanced towards the country house of H. M. Resident and Comeal Coureral, outside Business. Two British officers Major Oliphan and Coureral Resident Resident Residents. and Captain Ranking who with a party of Indian estudy and influency went to recommitte, came suddenly on a well-concealed party of the enemy who opening fire at case range, tilled both the officers and one sepry and wounded two more The enemy then advanced to attack Heavy fixing then took place

A streuteneous attack was also pistened for to seem evening is another direction, but was

On September 1 H. M Consul General at layahan, when out riding with an escort, was head at. Mr. Graham himself was wounded and his Indian orderly killed.

on September 7 The Vice Consul died on Septemper 8

On October 25 the munshi (clerk) and a gho-lam (mounted servant) of the Consulate at Shiras were shot at and wounded. The gholam died subsequently

On August 25 the British and Russian Con sule at Kermanshah were returning to their posts from Hamadan and were at Kangavar The German Consul at Kermanahah with a force consisting of perhaps 200 men and two Maxima occupied the surrounding hills, and informed the Governor that he would give three hours for the British and Russian Cosmis to leave. Failing prepara and Hussian Cosmin to leave. Failing this he would attack the town. The Commission of the terms and his forces left. The object of his attack was obviously to keep the consister representatives of the Entente Powers out of Karmanshah, the main means of extraors for German agents into Persis.

Argorium, when out riding with an encore, was lived at. Mr. Grisham himself was wounded and his Indian orderly killed.

The Riddin Yee Omesi, at Shiras, Ghoisnail into tellular work made prisoners and curried Ehms, was glast at shift wounded in two planes.

### TERRITORIAL TROOPS IN INDIA.

The following are the British units which rived in India in 1914 15 in relief of the British troops who have gone to the front together with the stations to which they have been posted.

Wester Disision.

Deson and Cornuall Brigade.

4th Duke of Cornwall a Light Infantry (Lt Col. Smith), Bereilly

4th Devonshire Regiment (Lt.-Col Acland Troyte), Ferosepore

5th Devendure Regiment (Lt. Col Hawker). Multan.

6th Devoushire Regiment (Lt-Col Rad cliffe), Lahora

South-session Infantry Brigade.

4th Somerset Light Infantry (Lt Col Cox) Peshawar

5th Somerset Light Infantry (I.t.-Col Cooke-Hurle,) Ambala.

4th Dometshire Regiment (Lt. Col Baxter) Ambala

4th Wittshire, Regiment (Major Armstrong) Delbi.

Hamsehire Infantry Brigade

4th Hampshire Regiment (Lt. Col. Bowker) Prons.

5th Hampshire Regiment (Lt.-Col. Burford Hancock), Allahabed.

6th Hampshire Regiment (Lt.-Col. Playfair),

7th Hampshire Regiment (Lt.-Col Parke), Meerut.

Field Artiflery of Wayse Division Pirat Worsez Brigade

Commanding Lt.-Ool Powell.

1st Hampshire Battery (Major Flowers), Labore

2nd Hampshire Battery (Major Cogswell), Poshawa

8rd Hampshire Battery (Major P House), Labore.
Second Wessex Brigade.

4th Hampshire Battery (Major Malcolmson),

5th Hampshire Battery (Major Thompson), Luckaov

Third Wesses Brisade.

Commanding Lt.-Col Bedford Pim.

6th Hampshire Battery (Captain Carroll), 4 mbala

Withhire Battery (Major the Barl of Suffolk) Delhi Domolahire

ometable Battery (Major Livingstone Learmonth), Bereilly

Fourth Wroses Brigade.

Commending Lt.-Col Taihot.

lat Devenables Buttery (Lk.-Ool, Perowne),

Sad Discombine Buttery (Major Violents). Dinapore.

ard Devonshire Battery (Major Arden). Barracknore.

Surrey Infastry Brigade.

4th Royal West Surrey Regiment, Luckney. (14. Col. Cutler)

5th Royal West Surrey Regiment, Lucknew (Lt. col. Brodrick)

5th Rast Surrey Regiment, Novebers (Lt.-On Harvey)
in Rest Surrey
(Lt -Col. Dryson) Surrey Regiment Rawalpindi.

Kest Infantry Brigade

4th Bast Kent Regiment, Aden, (Lt.-Col.

Gouling)
5th East Kent Regiment, Kamptee (Lt. Col. Munn Mace)

4th Royal West Kent Regiment, Jubbulpece (Et., Col C N Watney),

5th Royal West Kent Regiment, Thansi. (Lt (o) Frager) Middlesex Infontry Brigade

9th Middlesex Regiment, Dinapore (Lt.-Col Blumfeld)

10th Middlesex Regiment, Fort William (Lt -Col. D(mond) 4th Border Regiment Maymyo (Lt.-Col.

Waterlow) 1st Home Counties Brigade R.F.A

1st Sumex Battery Mhow (Major Hovers). 2nd Sussex Battery Mhow (Major Darke),

3rd Sussex Battery Mhow (Major Barton). 2nd Home Countries Brigade R.F.A.

4th Sussex Battery Rawalpindi (Major Mosa). 5th Sumex Battery Multan (Major Johns). 6th Sussex Battery Feremenore (Major

Bradford) 3rd Home Countres Brigade, R.F.A.

1st Kent Battery Jubbulpore (Major Carder).

2nd Kent Battery Lucknow (Capt. Wise). and Kent Battery, Jubbulpore (Major Denne).

The Indian "Sandhurst" - A Codet College was opened in 1915 at Quetta for the training. during the war of cadets for the Indian Army The qualifications of candidates are identical with those presembed for admission to the Reyal Military College at Saudhurst and are, briefy, that candidates must be of English perentage between the ages of 17 and 25 and accepted as suitable in all respects to hold a commission in the army Entrance examinations are held in London half yearly, the usual examination fers being remitted for the time being. The successful competitors for these cade-The aucosaful competitors for these cadesiality in medically fit, are then sent to Kadis for a six months course of training. The parent or guardian of seak cadet is required to deposis the sum of 225 for the prevision of uniform, books etc. and 25 monthly for pocket the service of the extreme are raid by the the cade. unnorm, some oto said a state by the Gov ernment. At the conclusion of the course the cades, it suitable are, meer the order of the commander in Orier, posted with the reak of 2nd Lieutenant to cutta of the Indian Army Further information as to the financial arms go

ments and all other details can be obtained on ments and all other details can be obtained on application to the Milltary Servetary India Office, London, or to the Chief of the General Staff Simila. The complete scheme of training cadats in India comprises in addition to the college at Quetta, a college at Debra Dun and one for cardidates for the cavelry at Saucor An Army Entrance Examination will be held in London on February 22, 1916 and following days, at which there will be open to competi tion—100 cadetships at the Training College at Quetta, India (for the Indian Army), less such Questa, notis (for the Indian Army), less auch number as may be awarded to King's Cadets, King's India Cadets or Honorary King's India Cadets Forms of application will be furnished on application by letter addressed to the Secretary Civil Service Commission, Burlington, Indian William of the Commission of the Cadets of the Campleted and forwarded to the Secretary Civil Secretary Civil Secretary Civil Secretary Civil Secretary Civil Service Commission

The first batch of 99 joined at Quetta in May, and in November the commandant reported that 95 gentlemen cadeta were fit to receive commissions. The course of six months instruction at these colleges embraces drill musketcy minor tactics, military history and strategy physical training riding military engineering military aketching and reconsais-sence organization administration and military law and almost daily matriction in

The St. John Ambaiance Association in India, which since the outbreak of the war has firmly established itself at the Red Cross Society of India, is controlled by an Indian Council under the Presidency of H. E the Vicercy The oxe outive work is carried out by a small Executive Committee composed as follows—The Birctor General, Indian Medical Service the President of the Railway Board, the Director of Medical Services in India, the Private Secretary to the Viceroy the Surgeon to the Viceroy a Repr sentative of the Education Department a Bepresentative of the Foreign Department the General Secretary the Treasurer

Lieutenant Colonel R J Blackham YHE has carried on the work of Hony General Scoretary in addition to his military duties for Secretary in addition to his military duties for seven years. In November 1914 he was second ed by the War Office for duty as the Becretary of the Association in India. The Association has commodicus offices at Sin is and Delhi and accompanies the Government of India in its moves from the Summer to the Winter capitals. It has a large Depot for distributing Ambuliance Stores at Bombay and since the outbreak of the War the Indian Council has established a War (Giffa Denni alon at Exemper. established a War Gifts Depot also at Bombay for the receipt and despatch of Red Cross gifts This Depot dealt with comforts and gifts to the value of upward of eight lakha (£50 000) during the first ten months of the war

### WIRELESS TELEGRAPHY

The annual report of the Indian Telegraph Department for 1914-15 states—The total remainer of wireless stations rose from 17 to 18, of which 10 were coast stations open for general public communication with ships at sea. These coast stations deat with 65,528 messages of all kinds as compared with 76,528 messages of all kinds as compared with 76,528 messages are stations death with 65,528 messages of all kinds as compared with 76,528 in 1913-14, the number exchanged with ships being 4.312 as against 5 662 in the preceding year. New stations were opened at Secundera. year New sameons were opened as a recumera-bed, Madras and Bangoon and the stations at Mergul and Bassein were closed on the resona-traction of the Bay of Bengal stations (Port Blast Dismood Listends and Vectoria Foint) keaving a net increase of one. The wiseless stations worked satisfactorily throughout the year, but difficulty is still experienced in comremniesting during periods of straographetic disturbance. The only serious breakdown during the year occurred in April 1914 when a severe hatistorm wrecked the extial at Calcutta

graphy in his official capacity at the expense of Government no licence is required, but only or covernment no heance is required, our only executive permusion which may be given so far as the Telegraph Department is concerned by the Director General, Posts and Telegraphs

- (2) When an officer carries on experiments (2) When an officer carries on experimenta as a private individual at his own expense he must obtain a licence. If the approval of the military authorities is required to what he proposes to do he should obtain such approval before the Director-General, Posta and Telegraphs is approached. The licence will then be submitted by the Director-General, Posta and Telegraphs, for the sanction of the Government of India.
- (3) With reference to the above attention is drawn to the necessity for applying for iconces to own and use wireless telegraphy severe haistorm wrecked the serial at Calcutta

  Libemons 1e Officers.—The Government of Ends have decided that the granting of itenoses to military officers in respect of the apparatus showing (a) systems it is proposed wireless telegraph apparatus used for experimental purposes shall be regulated by the with applicants own recipies (i) When an officer conducts the wireless telegraph apparatus was the proposed of including growing proposed of including the proposed of including growing proposed (ii) When an officer conducts experiments in wireless telegraphy.

1. 1

### Racing in India.

### Calcutta

King-Emperor s Cup Distance 1 mile --Mr R R. S s Bachelor s Wedding (9st 8lbs.), F Templeman Mr Thaddeun Evett (9st ) W Huxley 2 Mr W Bertlett St Andrews Firth 3 H H Rajah Sir Ranbir Singh s Jacamar (9st 3lbs.) Trenoweth Vicercy a tup. Distance 11 miles-H General Nawabzada Obaidulla Shan's Kiltol (9st 3lbs.) Howley Mr R R S s Bachelor's Wedding (9st. 3bs ' F Templeman Mr W Bartleet's St Andrews (9st albs ), Mr Goculdaes Knights Key (Set 111bs) Whalley Governor's Cup Distance Bace Course -Mr Bartlett - 8t Andrews (7st 81bs carried 7at 72(bs ) Hardy Mr Fyers Midsand (6-t 12)by earned Oat 13ba ) Lynch Zamindar of Nazirvini Mis Diske Cst Olbe ), Vincent Mr R R 4 - Work (srl (9 t 20h) P Brown Prince of Wales Plut Di tance 1 mie --H.H. the Lour Sabib of Patiala . Le Soleil (8 at 21bs) Templeman Mr Bartiett a St. Indica (8-1 8|ba) Hardy Mr R R > + Kiapion (9 t olbs.), P Brown Mr Thadden Waich Town ("t lbs)
Vincent Grand Anunal Distance \_ intes over 5 Mr Goculdens Politian (10st, 8lbs ) 4 Hoyt 1 Mr K. Dawson a Dolly Dimple (9st 10lbs ) Williamson Zemindar of Nasergunge's Canberra (11st 81ba ) T Ferrumon

Oct. 11b.), Northmore

The Metropolitan Distance 6 furlongs —
Mr Goouldass' Polish (9st), Ruiz
Thakur Bripal Singh s Widglewa (7st sibs carried 7st. 10ibs ), A. Kuhn
Mr R. R. S.'s Kempion (9st 11b ), P Brown
Mr Bartlett's Santa Barbara Pitrolbon

**Ur T Fergusson's Bellower** (9st carried

Macpherson Oup Distance St. Leger Course— Mr Goondas Matchlock (Sat 51bs ), Euiz Mr. Kaho's Cherrywood (7at 93bs.), Kai Khanasa

Mr R R 8 s Bachelor's Wedding (9st 111ba.) P Brown Mr R R S s Work Girl (8st 4bs) Purto Blingh Merchants Plate Distance 13 mile --Mr Bartlett s St Andrews (Sat 111bs.), Wr Gornidass Matchlock (8st 12lbs ) Buiz 2 Mr Fvers Midsand (, t 71bs ) Lynch Mr Choudburys Milliner (7st 131be), W Southall International Pony Pirte Distance 7 furiongs-Wr J D Scotts Sea Lad F Leman Goculdau Symptoms (Set 12lbs) Whalley Major Holden and Mr J D Scotts Lady Marchmint (9st 7lbs) W Huxley Ur R Powells Go On (9st 3lbs) Pirth 4 Cooch Behar Cup Distance 11 miles -M Gornida Watchlork (8et 21bs carried 8-t 3[b-) Rulz Mr. De Souza - Valado me (S. t. db. earried Not Sibol Trenow th Mr T heott a ( ider (%st #bs ) 4 kuhn thadeus Wayward and Wild (7 t 41ba ) Lynch Burdwan Cup R C and distance over seven flights of hurdles -Mr M Goculdas Politian (9et 7lbs.) A Host Zemandar of Nazergunge's Canberra (10st 31bs ) T Fergussun Wester R Pugh and H Olpherta Lesto (9st "lbs) Northmore Ni I D Scott's Proprietor (9st 10ths) Mr Rodrick

# Tollygunge Indian Grand National Distance about J mil a Mr T Curtia Hayward a Pilot (9at 60bs

Mr R A C Pugh a Dynevor Park (9at

Wr A L Butlers Sholto (10st 117bs),

carried 9at 10lbs ) Mr Bush

Sibs ) Vorthmore

9

"I Ferguson
Mr L Welker's Tommy Daw (Ost 70s.),
McNellage
Tollygunge Plate Distance 3 miles.—
Mr Butler's Betty Birr (Ost. 70s. carried
Ost Sibs.) Mr Roddick
Mr Welker's Shift og Sand (Ost 20s.)
Mr Evers
Major Welter's Resmeldon (Ost.), Williamson 1
Mr D Scotts Sea Lad (Ost 20s.), Barkar
Tollygunge Steepichage Distance I miles.—

Mr Hart a Exchange (Set. 7ths ) W O

long -

idnus 100

Templemen

Distance 4 furlungs.— Charle Durn Elilott's Blackwater (9st Mr Savera 1 Mr Pike a Boadses (10st 11lin.), Owner Mr Hunter's Frince (harlie (11st 9lb8) Bombay The Byoulla Club Cup Distance 1; miles .-Mr M. Goonldass First Call II. (7st 7lbs ), Hovt Mar R R. B. 2 Bachelor's Wedding (9st 121bs ) Hardy Mr M Goculdam Matchlock (8st 13lbs.) Zemindar of Nagergunt's Miss Drake (7st 31bs.) Kamad The Turf Ciub Cup Distance 13 miles -Mr R. R S . Majbur (Set 121ba) Hardy 1 tueral \awabgada Obaidulia Khan -Dardanelics (6st 91bz ), Japhith Mosers, M. Goonidaes, and P. Mathuradaes Mexico (8st. 11th; ) Hoyi r A. A. Mahomed - Bevrut (9st 41b- ) Alz J. Crawlord Bombey Derby --Mr R R & Kavid (od 101ba) Partoo Singh Wr A. S Comer's Majbur (8-1 3lbs.) Abba Mesers Kall Charan and Shalk E mall -Longboat (8st 51be ), Trenoweth General Nawabzada Obaldulla Gold Flah Il (8at 111bs.) Crowden The Grand Western Handieap Distance about 1 mile 1 furlong-Mr. R. R. S. s Kempion (9at ), Kalkushioo H. H. Kour Sahib of Patiela a Le Solell (Sat Olbs ) Templeman Mr M. Goodlass Soulillas (" t 11b) Purtoo Singh Mr M Goonldam Refresher (\* 1 108bn.) Hort The Willington Plate Distance about 7 furiongs.— overal Nauabzada Obaldulla Khan b General Lady Muriel (7st 21bs.), Purtoe Singh Mr M. Gocoldana Soulfline (7st 8lbs ) HATTISOn H. H. Kour Bahib of Patiala & Le ) Bolaii (9at 4lbs.), Templeman Dear Captain Hillard's Lakine (8st best 3, 44bs.) Fergisson Dead Bosahav City Plate .-Mr. M Goottdas Arthur B (9st. 6lbs ) Hoyt Mr M. Goculdan Older (Pat 31ba.), Per

Mr. B. B S. s Bachelor's Wedding (9st

Mr. R. B. B . Tempton (Out Abs.), Est-

160bs.), Hardy

Mr 4 4 Mahomed s Bevrut (Sat. 13 lbs.). Mr Crawford Wr R R S e Dhaman (9st 10lbs ), Kai koshroo General Nawabzada Obaidulla Khan a Singer (Set 13|bs.) Trenoweth Mesars M. Goculdaes and P Mathuradaes Nakib (9st 12lbs.) Hoyt Malabar Hill Plate -Mr M. Goouldess Arthur B (9st 8ibs.), Hovt Mr M. Goculdass Pollsh (9st 20bs.), Fer guson Wr R R & & Bachelor's Wedding (9st 31b. ) Kalkushroo The Gough Memorial Plate Distance 6 for long- -Wr L H Oomers Kabaraman (7st 111bs) Harrison. Measts M Goruldner and P Mathuradase Baloz (94) 9lba.), Hort General Nawabrada Obtadulla Khan s Bravo (Set olds ) Purtoo Singh Vir R E, S & Addul Malik (9st 13ibs ), kaikoshroo The Mansfield Plate De tance 6 furlongs --H H, the Maharaja of Gwalior's Twa Brigs (7st Sibs ) Southall Mr M Goculdass Polish (9st 6tbs.), Hoyt General Nawabzada Obajdulla Khan s Lady Muriel (7st 6lbs ) Purtoe Singh Mr Homi Billimoria s Hoppner (7st 'Iba.) **Laikushroo** The Flying Plate Distance 5 furlougs (straight) -R R the Maharaja of Gualior's Twa Brigs (7st 1110s ) Houthall Mr M. Goculdses Polish (45st 91bs ), Hoyt Capt Hilliard a Lakine (Set 81bs.) Fergrayeon. Mr M. Goculdasa Primross Morn (Ost 81bs ) Pratt Poons Poona Derby Distance 14 miles -Messrs M Goculdass and P Mathumdass S-arrow Hawk (9st 9lbs.), Barrett Mr Alibin Talib & Black Malik (Sat. 21tm ) Mujeed Mr Gahagan a Sweden (8st 3ibs., carried Set. 41be ), 24ml] Mr R B S. a Kayld (8st 7lbs.), Firth 3 Trial Plate Distance 1 mile --Mr R R S & Oriton (7st. 10lbs.), Kal

Mr. Heath s Orioff (Set., carried Sat 11b.),

The Gave Cup Distance about 1 mile 1 fur

Obsidulis Khan s General Nawabzada Kiltol (Set 11lbs ) Bowley H. H. Raish Ranbir Singh of Patiala Jacamer (7st, 10lbs ) Buckley the Aga Khan s Cup Distance 14 miles -General Yawabanda Obaidulla Khan s Kiltol (8st 111be ) Bowley Wr RR R's Bachelor's Wedding (9st 3lbs ) Kalkhusroo H H, Baja Sir Ranbir Singh of Patials 4 Jaconiar (7st 10lbs carried 8st 2lbs ) Frenoweth H. H. Maharaja of Gwallor's Manilla ( st (Olbs ) Barrett H H the First Aga Lhan . Commonworation Plate Distance 11 miles -Messrs M. Goouldas and P Mathurada s Nakib (9st 10lbs ) Barrett Mr. R. B. S - Thank You (8st 7lbs ) kai khusroo Mr Dara Cowasjes a Terror (Set 111bs.) Lunu Mr Alibin Tallb Mon 3 (old (8st albe) Pratt The Arab Pont Derby Di tance 6 nurlongs -General Nawabzada Obaidulla Khan s Soomsam (Ost 5lbs ) Bowley Mr Abdools Faras Durban (0st 21bs) Hard▼ Mesers M Goruldaes and P Mathuradaes Winch ster (8 t 121b ) Hoyt The Poona Plate Distan about 5 fur longs --Mr M. Goculdans Foward III (bet 4lbs ) Barrett Mr Homi P Bilimoria s Hoppier (8st 11b) Kalkhuaroo Mr M Gocuidass Polish (Ost 31bs) Palllo Ganeshkhind Plate Distance 6 furiougs -Maharajah Gwallor's Twa Briggs (8st 11b) Hoyt Mr J L. Alnsworth a Vanity Box (7st 8ibs rarried 7st. 9ths ) Buckley Mr G K, s Madrina (6st 10(bs ) Harrison Genl. Nawabzada Obaidulla Khan s Lady Muriel (7st 12lbs ) Bowley Distance 7 turiongs -Wanowric Plate Mr B. B. S s Thank You (8st. 3lbs ) had khoosyoo Mr Abdulla Faras Durban (8st 3lbs) Zemai Mr R. H. Gahagan s Wellington (Set 3lbs.), Mr M. Goouldess Polish (Set. 6lbs.) Hoyt 4 The Governor's Cup Distance-B C and distance . Obsidulla Khan s General Nawabsada Singer (8st 11lbs.) Bowley Mr. R. R. S . Kayid (7st 10lbs.), Kai

Pyde Loo

Mesers. M. Goculdan and P Mathuredess Mexico (8st 6lbs ) Berrett General Nawabzada Obaidulla Khan and Mr Kall Charan's Bowing Boat (7st. 10lbs ) Pullin The Stand Plate Distance 1 mile -Mr Wilton Bartlett's St Andrews (Sat 81bs ) Firth Mr M. Gocuklass Souttline (7st 21bs ), Mr Isom H H Raje Sir Banbir Singh of Pati Le Solell (Set 10lbs ), ala s Templeman Dead Nawabzada Obaldulla / heat 3 General Khan s Lady Muriel (7st 11lbs) Purtoosingn Western India Stakes Distance 11 miles -Wr Kelson Cherrywood (6st, 121bs) Lynch Mr Wilton Bartlett's Santa Barbara ("st. alba) Kaikhuaroo Wr. R. R. S. S. Bachelor's Wedding (9st 12 lbs.) F. Templeman Mr M Goculdase Cider (9st albs Barrett The Turf Club Cup Distance 12 miles teneral Nawabzada Obaidulla Khan s Singer (Ost 11b \ Bowley Nawab Najai All Khan s Sir Knight (Sat. Sibs \ A Templeman Mr M Goruldass Tajilmulook ("at 8lbs) Hoyt Wr R P 8 Dhaman (9st 11b), F Templeman

Plus Cursetjee Dunlishaw Plate Distance 1 Mr R R S s Thank You (9st 11b) h Templeman Mr R H Gahagan's Wellington ("et 91bs.), Lynch Vir Erach Jijibhoys Young Majub (8st 1\_lbs) A Templeman

Aga Shamshudin Plate Distance 7 furion 28 -Mr J L. Ainsworth a Vanity Box (1st 13lba)

Bucktey Raju Sir Raubit Stugh of Patiala & Le Solcil (8st 12lbs ) A Templeman

tenoral Nawabzada Ohaidulla Khan s Lady Muriel (7st 18lbs ), Bowley

Mr M Goouldass Matchlock (Set 31bs ) Barrett

The Hunters Flat Bace. Distance 1 mile,-Mrs H P Gibbs Guinevere (12st 7lbs.). Mr Cannon

Mrs. W Turner Green a Lady Falkirk (12at. 71ba.) Capt. Meade

Capt. W B. White a Offshore (12st. 7lbs.), Owner Mrs C N Wadin s Highplay (12st 71bs ).

Mr Harris

The St. Loger Plate Distance R. U and distance -H. H. Raia Sir Ranbir Singh of Patiala s Jacomar (Sat. Sibs.) Quine Mr M. Gocaldasa : Matchlock (8st. 6lbs.) Barrett Mr. Wilton Bartlet a St. Andrews (9st 4lbs.) Firth Mr M. Goouldass Pretty Good Sort, (7st. Sibal Buoklev The Eclipse Plate Distance about 5 fur loags -Mr M. Goculduss Pollah (9st. 7lbs.) Barrett 1 Immeral Nawabrada Obaldulla Khan s Lady Muriel (7st 3lbs), Partocalngh Mr Kelso's Miss Rollestone (7 t 11b) Lynch Mr J L Ainsworth a Vanity Box (9st. 4bal Buckley The Arab Champion Plate Di tance R C and distance -Navab Najaf All Khun e Sir Knight (8st. 10lbs.) A. Templeman Mosers, M. Gouth ass and P. Mathuradass Nakib (9st. 31b.) Barrttt Mr R R S s Thank You (Sat 10lbs), F Templeman General Nawabrada Obai tulla Singer (Set. 10ths ), Bowley Lucknow Royal Calcutta Turi Club Chase Distance 8 miles Mr Batler's Sholto (11st 32bs ) Roddick Great Ordh Handicap Distance 6 furlongs-His Highness General Nawabzada Obadul ish Khan + Mohsel (8st 11b ) Bowicy Mr. Watson Smyth s Abbaba (8st 13lbs ) Randell Sarders Diyal Snigh and Jaswant Singh s Old Joe (7st), Vincent Mr Skinner's Mubrook (7st 1sths) Hort Lucknew 8t Legit Distance 2 miles Captain Naylor's Sambo (12-t 71b ) Thwaytes Major Bidgeway's Royal Gift (9st 7lbs), Невтвеу Stewards Cup Distance 1 mile -Sirder Jewan Singh's Menes (Oat 117ba) Vincent Thaker Scipal Singh a Mayily IV (9st 6ibe ) Mr Lander's Mahoney Boy (9st 7lbs.), Baix Capt. Cairne s and Mr Sanford's Kit Grey Log (7st dibe.), A. Hoyt Cavil Bervice Cun. Distance 6 furiousa .--Airdar Jawan Singh's Ormy (Ost 4lbs.)

Trensweth

Mr Titwillows Little Arch (8st 8lbs ). Ontino Mr Goouldass Riors (9st. 41bs.), A Hoyt. Meers. Swan and Hillard a You (7st. 12ths.), PrixGibbon .. Lucknow Derby Distance 11 miles.-Thakur Sripal Singh a Mayfly IV (Oat), Kohen Mr Goouldass Pretty Good Sort (9st 12lbs ) Rule His Highness the Kour Salub of Patisis a Mil (9st, 11b) W Southball His Highness the Kour Sahib of Patials s Hamara (Ost 61bs ), Clarko The Points Cup Distance 6 furiouss -His Highness Nawabrada Obaidulla Khan s Arlington (lot 3lbs | Bowley Mr Goculdass Kiora (9st 191bs ) Rulz Mr Titwillow's Little Arch (9st 21ba.) Roddick Captain Caurne s and Sanford s Friendship (7st 4lbs ) Putroc Singh Meernt Micrut Plate Distance 5 furlongs -Mr R bkunners Uncl B (8-6 81be) Williamson Captain 5. O Robinson s Gwm (861 21bs carried 8st 3lbs | Quinn Mr J D Scott s Sea Lad (9st 111bs ) Fitz Gibbou Captain Cairn's and Mr. Sanford's First Choici (7st 8lbs.) Lynch Royal Calcutta Turf Club Chase Distance 2 miles.— Mr A L Butlers Sholto (11st Sibs ) Northmore Mr M. I Oake a Kentrel (Oat) Williamson Coo.h Behar Cup Distance 7 furlongs -Mr Ariffe Valiant (10st 71bs ) Erahan Thakur Aripal Singh Hard tash (10st) libs ) Northmore Mr. Hajec Oosman Sait - Aubrey (11st) Mahjan tell but to V a death erbruck rower 101 to ) litztribbon Governor General's Cup Distance 1; miles -Mr Haji Ookinan Sajt's Aubrey (8st 180 be | Machine Mr Ariff's Vallant (9st 3lbs ) Traisan H H the Rajah Bir Rar bir Singh of Pati sia : Housemaid (9st. Albs ) W Bonthall 3 Lakshmi Kanta Raj Urs Conslip (9st. 3lbs.) Lynch Jodhpore Cup Distance 1 | miles --Musemden a Dencing Mistress Colonel (9st. 12Ibs.) Trahan Captains Weldon and Cairn's Lark Lodge (Set Sibe ) carried (Set Sibe.) Williamson Mr Latham s Sport) Boy (7st 71bs.)

As the th

Meerut Silver Vase Distance 6 furimus —
Sirdar Jewan Singh a Hyrim (Set. 11lbs.)
Northmore
Singh a Hyrim (Set. 11lbs.)
Barrett
Mr. Davison a Ali Baba (Set. Sibs.) Trahan
Kour Sirnan Singh a Imperial (Tet. 21ba.)
J Southall

Ambala. Royal Calcutta Turf Club Handicap. Distance 7 furiongs.-Sirdar Jiwan Singh's Menes (Set. 11be.) Trahan Col. Mussenden s Dencing Mistress (7st. 9lbs ) J Southall H. H. the Raigh Sir Ranbir Singh of Pati ala s Jacomar (10st, 10lbs.) Quinn in charam Cup Distance 1 mile -H. R. the Rajah Sir Ranbir Singh & Mil (9st 191bs ) W Southall Sardar Jiwan Singh a Morino (7st. 111bs ) Melsom Col. Mussendings Dancing Mistress (8st 71bs.), Trahan Patiela Cup. Distance 1 000 yards --Mr B Skinner Brandy II (Set 11b) E. Bkinner Sardar Diyal Singh and Jaswant Singh s Old Joe (7st 11lbs ) W Bouthall Col. Museundin & Monty (7st 5lbs ) Trahan J Ranbir Cup Distance 1 mile -Sirdar Jiwan Singh s Menes (10st ) Trahan, 1 Captain Cairnes and Welden s Lark Lodge (6st. 18lbs. carried 7st. 2lbs.) Abdul Wahed Major Heed & Pat & Pet (8at ) Crowden Patiala Cup Distance 1 000 vards,-Raja Sahib of Patiaia a Little Wonder (9st. 5lbs ) J Southall Captain Mostyn Owen b Miss Zena (Set. Mbs.) Crowden Sirder Jiwan Singh a Mass Lily (8st 21ba.) Traben Panna Jali Cup Distance 1 000 yards — Sirder Diyal Singh Chhachi a Old Joe (Sat. 61ba.), Trahan (aptain Kennedy's Najmi (9st. 71bs) Crowden Lour Sarnam Singh a Imperial (7st 12bk),

### Baugaiore.

J Bouthail

The Maharajah of Mysore s Cup. Distance I mile—
Mr. D. B. Captain s Sugar Loaf (Sat. 11b ), Melsom
Mr. M. Goorddas' Double Chin (Set. 41bs.), A. Hoyt
The Semindar of Naserguni's Miss Drake (Set. 41bs.), A. Fergisson

Mr T M. Thaddeus Wayward and Wild (9st.), Bowley The Civil and Military Service Plate. Dis tance 1 mile -Lieut. Col. R Fauncas Delusion (Set.), A. Hoyt Lieut. Col. A. 8 Arnold a Lucy Giltters (late Bijli) (9st, 3lbs.), Nard Singh Lieut. Col. A. S. Arnold's Anarchist (9st. 12lbs.), A. Ferguson The Bangalore Cup. Distance 11 mile -Mr D B Captain a Sugar Loaf (9st 5lbs ), Meisom Mr J C Gaistaun's Scotch Plaid (7st 10lbs.) Kaikooshroo Mr M. Goculdas Double Chin (9st. 12lbs.), A. Hoyt Mr M. Goculdas Pretty Good Sort (Set 10lbs ), Bowley Labore.

Lahore 8t Leger —

Major Holme Barmaid (Set. 21bs carried 7st. 21bs ) Southall 1

Mr Fleming a Sahana (11st. 71bs.) Trahan. 2

Sardar Jewan Singh a Fortunate Lady (7st. 11lbs. carried 8st. 70st.) Quin 3

Lahore Cesarewitch ---

Capt Meynell's Silver Memory (8st bibs carried Set 12bs.) Quinn 1 Capt Wedden's Lark Lodge (8st. carried 8st 7lbs.) Trahan 2 Captains Cheape and Welbolt's Pata Pet (Set 11lbs carried 9st 4lbs.) Randali 3

Mamdot Cup. Distance 1 mile .-

Rajsh Sahib of Patials a Housemaid (9st 3bs carried 9st 7bs.) Quinn Miss Kirkpatrick a Flame (9st 3bs. carried 9st. 8ibs.) Bal Kerran

Mir Nizamuddin's Chambeh (Set Sibs.), Jager 8

Moutement-tovernor's Cup Distance 1 min.— Mr E. T Clarke's Vigorous (9st. 4lbs., oarried 9st. 8lbs.) Melsoun Capt Bruce's Floradors (10st. 10lbs., carried 10st. 2lbs.), Capt. Wagniac

Mr Sydney Smith a Acorn (9st. 10ths, carried 9st. 8ths.) Mr Holland

Ranbir Cup Distance 5 forlongs-

Mr Sydney Smith a Happy Days (8st. 101bs.), Durgs Capt. S O Robinson s Gwen (9st. 105bs. estried 10sk.), Crowden

Sirdar Jewan Siagh's Mayounseen (10st. Sibe, carried 10st. Yiba.) Trahan

Trahan Sirdar Soojan Singh s Mesalilanco (Sst. 7lbs.) Taakar

Punjab Cup Captain Beatty's Virago (19st 3lbs carried	Mr A. R Dakheil's Victory (Sat. 2018.), Ebrahim
Contain Puller's Bine Boy (9st 10lbs)	Mr Sheik Ismail's Minimax (7st 12ibs.), Mujeed 3
ostried set. 7hs.) Owner The 37th Lancers Rumour (10st. 8hs.)	Turi Club Open Handicap Distance 5 furiongs,
<b>∀pqa</b> j	Mr Yakoob Zuheir's Pharoah (Sat. Sibs., carried Sat 40s.), Mujeed
Merchant's Oup Distance 6 furlongs	Mr Staveldie Lord Satu Out, 61bs \ Mr
Major Grants and Mr Quinn Young 8 B M Bonnie Bush (7st 7lbs.) Karim 1	Harrison 2 Mr A. B. Zuheir's Kassum (7st 8lbs.),
Major P Gould's Sincerc (9st 8lbs parried 2 2 12lbs.) Trahan	Ebrahim .
Captain Mostyn Owen a Miss Zenna (6st. 12bs. entried 7st 2bs), Melsom	Aundh Cup Distance 5 furlongs —  Mr P Malsee's Arabian Consul (8st.)
Rangoon	Kees Vr A Hazamv's Present (9st. 4bs.)
Rangoon Derby -	Mujeed 2
Manng Po Toke 5 Thaung 5:11 Ameent 1 Vaung Kan Yah 8 Otmare Asrka -	M <sub>J</sub> A. Heramy's Jingle (9st 41bs.) Ebrahim
Maung Thin s Blue Beau	Karachi
Rangoon St. Leger — Mr Burjorjee s Taneisman McCloud 1	The Western India Luri Club Stakes. Dis
Maung Op Toke's Thoung Sein 2 Maungba Be's Biue Beau 3	tance I mile.—  Vir Muller's Hushaby (0st Tiba.) Church
<del>-</del>	ward 1
Harvey Adamson Stake Mr Donaldson a Coronation	Mr Cresswell Jesale (Hat 71bs ), Gumai 2 Mr Mahomed Choses Moselle (7st carried
Talk Kee a Sein Maung	Ut 11b) Mr Chapman 3
Po Lwin a Anburn	Stewards Handicap Distance   furlongs -
Secunderabad	Mr Muller's Ali s Well (ast 13lbs.) Thakur J
Grand Annual Hardle Handlesp Distance	(ap Carries and Sandford a First Choice (Set ) Maloo Ramji 2
First Venture (12st 12lb") Hard) 1 Metal Girl (11st.), Mr Scott	The Members
Violet (10st.), Capt Durbain	
Nimms Purse Distance a furiongs — A handlesp for Horses —	Grand National Handicap
Green (9st.), Mr. Brandfoot	Mr_ 6 Steers Lady Godeva (10st 7lbs )
Monderille (9st. 7bs.) Capt Durham	Owner  Wr G Steer's Tot (11st. 2lbs.) Captain
Briefless (9st.), Mr Holland	Washborough 2
Kirkee	Mr J Sales Domino (11st. 5lbs.) Owner 3
Pouns and Kirkee Hunt Cup Distance 1 miles	Barrackpore.
Man Charner Green - Ludy Falkirk (12st	Barrackpore Cup Distance 7 furlongs
Whe i Captain Mead	
Captain Rigby's Morganstic (12st "lbs) If Bakewell	WIL CHRESCHALL B INDUSTRIBLE ( page mon 2 o mon -
Mr. Liddell s Owner Up (12st 7lbe ) Owner	Madras.
Boyal Artiflery Cup Distance 1 mile -	Governor s Cap —
Mr. Barnes Trey O Hearts (12st 7ibs.), Owner	Hajee Comman Sait a Ambrey 1
Mr. W Scott's Scottle (12st 7ibs), Mr. Dowding	Yuvarala of Mysore s Little Speed
Bire Con Distance 7 furions	Mysore.
Captain Catrn's and Mr Sanford a Dubullow (9st. 180s carried 10st 11b) Mr Cannon	H. H. the Maharaja not having accorded sano

PAPERC	HASING
Ladies Paperchase Oup (Calcutta) —	Calcutta Paperchase Cup -
Mrs Tanner 1 Mrs Deakin 2 Mbs. Damians 3	Mr Evers 1 Vir Valu 2 Mr F L Walker 3
Pou y Paperchase Cup (Calcutta) —	Calcutta Light Horse Paperchase
Mr Lamond Walker 1 Mr Roddick 2 Mr Deakin 3	Challenge Cup won by Mr Eddis Heavy weight Cup won by Capt Crum
POINT TO POIN	T RACES
Bombay	Delhi
D-21.7-,	Pony Chase —
Bombay Light Horse Inter Troop Race -	Mr Selwyn (11th Lancers)
c Troop No 1 — Sergt Lodge Corporals Ellis Beldand Lowndes and Lance	Punjab Light Horse Race — Vir Metoslie
Corpi Sadier  D. Troop No. 1—Sergt Kirk Smith LCorpl Robinson Troopers Brobason Iones and Ridland	The Galloway Cup—Presented by Major General Galloway Honorary Colonel 2 Cl Light Cavalry—
( Troop No 2 — Troops r Boyszis Trooper Forcest Trooper Fletcher Trooper Drukt	Capt. Durham s Morning Glory Owner Col. Moore s Rat Catcher Hoosain Daji Raj Mr Moore s Mary Owner
B Troop.—Trooper Dalley Trooper Walker Trooper Graham Trooper Wildrum	The Regimental Challenge Cup — Presented be Colonel Moore—
D Troop No 2—L Cpl. Herbert Trooper Gilchrist Trooper Gileb Trooper Allen	Col Moore a Red Shot Wr B E. Hierson s Aftab Wr Prunty's Unknown
LAWN T	TENNIS
Simla	Bengal.
Championship Tournsment —	Bengal Championships
Men s Doubles Maharaj Singh and J W Green beat G M. Coates and E. P Jones	Men - Single L Deane beat F Boxs 6 0 4 6 6 1 0 6 8-4
Mixed Doubles.—Miss Bowder and G M. Coates best Mrs Stead and Leighton	Men - Doubles — A W Shallow and D shallow beat N Deans and I. Deans 6. 0 4 6 6 6 8 6 8 6 8

Men s Singles -- C Your best Lighton Crawford.

Ladies Singles -- Miss Bowder best Mrs. Gracey

Viceregal Lodge (Simla) Tournament -

Mrs. Gracey and Mr Vickery beat Miss Walter and Mr Powell

Simla Open Handkap Tournament —

Men a Singles.—Mr. P ( Vickery Leat Wr H. S. Sinter

Ladies Singles - Miss Bowder beat birs Walker

Mixed Doubles - Kunwar Maharaj Singh and Bibl Amrit Kaur beat Mr and Mrs. Johnson. The annual Allahatad Lawn Tennis Tourna mrat, which should have taken place in Febru ary, use abandoned.

## ż

t F Boxwell

R CL base we Deane 6-2.

Mixed Doubles -Mr Carrol and Miss Mac naught beat Mr Deane and Mrs. Lamond Walker 6-1 9-7

### Puniah

Panjab Championabips -

Men s Singles - Salem beat Deane 6-3 6-2,

Men s Doubles — Atkinson and Doane beat Jacob and Lumsden 6-3 6-1, 6-2.

Ladies Singles — Miss Bowder beat Miss Humfreek 6-4, 6-4

Ledies Doubles — Miss Ledie Jones and Mrs. Hadow best Miss Glass and Miss Bowder 7-5 6-2

Mined Doubles.—Atkinson and Mine Legile Jones best Deane and Mrs. Gracey 8-5, 6-8.

### Bombay

Western India Tournament .--

Bingles - Ranga Rao beat N F Neoroli

Men's Doubles.—England and Kemble beat J A D Naoroji and Engineer

Mined Doubles.—England and Mrs. England best Jackson and Mrs Nelson

Manyatt Cup .--

E D England beat T A Kemble

Condor Tournament -

V V Bhadkamker and R 4 Wagie beat Karve and S. B. Modi

#### Cooppor

Ladies Cup.—
Mrs. J O Bain
Gentlemen a Cup.—
Staff Sorgt J Parselle

### Open Tournament (Annual).-

Mixed Doubles.—Mrs Plumer and Capt. Plumer heat Mrs D Harvey and Major Brown

Men s Doubles.—Major Brown and Mr Parcello best Memrs Sabaseva Rec and E. V Krishnaswamy Iyer of Madma.

Ladies Doubles -- Mrs. D. Harvey and Mrs. Pearce best Miss Simpson and Miss McLeod.

Ven s lingles -J Parselle best Major Brown

### Matheran.

Matheren Tournament -

Men a Singles --- Mr Judhow beat Mr England, Mixed Doubles.--- Mrs. England and Mr Kemble beat Mr and Mrs. W Reid,

Ladies Singles -- Vrs England beat Mrs. W Reid

### CRICKET

### Bounbay Cricket Week --

- England (Lord Willingdon s aide) defeat of India by an innings and 263 rous (Major J G Greig scored 215 and Captain K. O Goldie 104)
- 2 Eindes draw with Parela Gose finish Hindus first innings—386 Parela first innings—206 second innings 246 for loss of five wickets. (Mr P Vithal scored 191 Mr S M Chothla 91 not out Mr V Kantak 91)

Quadrangular Tournament (Poons) --

Presidency Europeans beat Hindus in the final match by 10 wickets

Colin Challenge Bhield (Ajmer),-

Jhalawar ( C beat Railwav R C py 77 runs

Gackwar Cup --

Bahauddin College (Junagadh) beat the Baroda College by an innings and 250 runs

Northcote Shield (Bombay) -

Pit Navier's College beat the Fergusson College by 1.19 runs.

Meston Tournament (Vaint Tai).---

Aligarh, Past and Present beat the Hamp-shire Regiment,

### HOCKEY.

Grant Medical College Nu.  Finier Aga Khan Tournament (Bombay)	ini Tal Gy
Junior Aga Khan Tournament (Bombay)	The Secreta St. Joseph'
	ngalore Gy 7th Hussar
New High School 1 goal Ou	8t. Joseph' dh Police '
Reighton Tournament (Galoutia)	Hardoi Pel Lucknow P wimibiles (
St. Zavjer's College Nil.	Lucknow Alicarh
Age Khan Tournationt (Poons) Mi	des Tours
	Hookey, M. Persentine,

Naini Tal Gym. Tournament	
The Secretariat	1 goal
St. Joseph's College "A"	N₽
Bangalore Gymkhana Tournament.—	
7th Hussars	4 godin
St. Joseph's College	2 goals
Ouch Police Tournament.—	-
Hardoi Felice-Team	3 gCale
Lucknow Police Team Luximibiles Cup (Calcutta) —	1 gOal
Lucknow	وتعجو 2
Aligarh Madma Tournament.—	. <b>HÚ</b> ,
Hockey, M. C C,	6 apple.
Personiene, M. C C.	26

3 goals

6 pta

FOOTBALL.					
Indian Football Association Tournament (Calcutta).—		Billiott Shield Competition (Calcutta)			
Calcutta Football City	3 gnele	Rivon College	z gomis Vü		
Oustoms Football Club	A #	Harwood League (Bombay) Boyal Garrison Artiflery (Colaba)			
Trades Cup (Calcutta)		Calcutta Rugby Cup			
Howeh Rovers	3 goals	10th Middlesex Regiment	14 pts.		
Sporting Union	N <sub>1</sub> L	Onleutta Scottish	4 pt*		
Six a Side Tournament (Calcutta)	1	Poora Tournament			

2=2nd Hants Battery

Mi2=1st Hants Battery N4L E B S Rallway COLF Ladies Handicap Medal (Nastk).— Mrs Harrison 106—18=88 Mrs Anderson 18 Hole Medal Sweetstake (Bombay),-Seniors.—J H. Hardie and T K Fordyce the with 77 01 + 4 = 95Nasik Gymkhana Cup (Nasik) — Rigby 85—6=79 Lowndes 86—4=82 Juniors.-Kibblewhite and H. Provis tie with 71 Ladies Foursomes (Nasik) -Scratch and Handicap Medal Competition Mrs Nelson and Mrs Hobson win by 3 up and 2 from Mrs. Mould and Mrs Harrison (Bombay) -Seniora -- First, R. Kidd 38, 89=77-2= 75 President's Cup (Nasik).-Second, H. L. Simms 37 41 = 78 80 78. R D England 80+4-84 Hearson 90-6 Junion — First, G A Johnson 43 46 = 89— = 8° 8 cond H E D 8 mon 51 44 = 95 =84Captain s Cup (Nasik) — Lowndes (2 up) Hardie -12 = 83Blackheath Gold Medal (Bombay) -P W D Vase (Nasik) -Seniors.—H. L. Simms (Scr) and R D England (+3) tied with 76 H. L Simms won the handicap prize Mrs. Hobson and Gorne 27 Mrs Attcheon and Moylon Wellington Tournament -Juniors -D H. North (-12) won with 80 Miss Harvey and Mr J Burnham, 1 Mrs. Harvey and Capt Baker, 4th Somewet Calcutta Silver Challenge Medal (Bombay)-C O Sherwood (-5) won with 35 LL 2 Madras Silver Medal (Bombay) --Ladies Championship (Calcutta) --Mrs Whisk 1 Mrs Bromwell 2 7 L. E. Aitkin 48—2=41 A F Weir (47—5=42) C ( Sherwood 51—3=48 Penang Silver Medal (Calcutta) —

Mr C W Maxwell (89—12=73) Mr E.

Saunders (90—14=81) Porty Twa Medal (Bombay) -H. E. Hart (1 down on Borey) Merchants Cup (Calentta) — Gillanders Arbuthnot, 528 James Find and Co 549 Moran and Company 553 Wimbledon Challenge Cup (Rembay) .--Seniora.—E. Hargreaves. Juniora.—B. A. Johnson. James Finlay Bombay Gymkhana Cup (Nasik).-Amateur Golf Championship (Calcutta) — J D Gatheral won by 5 and 4 from Ridland 86-4=82 Anderson 101-15=86 and Reid 101-15-86 Mr Pernie

	PU	4.O	
Punjab Tournament		Simia Tournament	
Jeliah bad Gymkhana 58h Cavairy Bareilly Tournament —	2 goals	Viceroy's Staff Mr Holliday's Team	4 goals 1 goal
Civilians Military	7 goals Nu	Ambala Tournament.—	
Caracidani Oup (Calcutta).— Bahar	e 7 goals	Combined Depots of 9th Ho Horse and Poons Horse	odson s 2 goals
Caleutta " C	5 goals	7th Russats	1 gnel
•	CHE	88.	

Bombay Townsmeat. —
A Ones.—Mr. S. V. Bodas, championship prize Messra. V. K. Khadiker and R. V. Deshpunde tied for the scound prize. championship

Middlesex Regiment

B Class.—int prize Mr A. N Gadre 2nd prize Mr D Shende 3rd prize, Mr 8 P Payrt 4th prize, Mr D J Variawa and 5th prize Mr. S. B. Joshi.

## Chronicle of the year 1915.

### JANUARY

lat.—The New Year's Honours List announced the following decorations—One K.O.S.I. (Maj Gen W. R. Birdwood) two GCIF (The Maharaja of Venkatagiri and the Yuvarrjo Mysore) twenty-one C.I.E., two Honorar C.I.E. six Kolkhthoods (Mr. Justice Heaton, Bombay Mr. G. C. Buchanan Bangoon Mr. Justice Johnstone Lahore Mr. G. Dunbar Calcutta Dr. J. H. Marshall, Archeological Department, and Mr. S. P. Sinha, Calcutta) nine Gold and twenty Silver Medals of the Kaiser i Hind

Srd.—The appointment of the Hon Sir Harcourt Butler to be Lient Governor of Burma in succession to Sir Harvey Adamson was an mounced.

The day was observed throughout India as one of special intercession for the success of British arms in the war and for a speedy and auccessful conclusion of the conflict.

4th.—The Finance Department of the Government of India issued a communique detail ing special steps decided upon by the Government of India to meet the extraordinary situation in the ootton market arising from the war

6th.—The Hon Mr W H Clark Member of the Government of India in the Department of Commerce and Industry met the Committee of the Bombsy Chamber of Commerce and discussed with them various matters affecting mercantile interests especially in regard to the war.

16th.—Mr M. K. Gandhi, the South African indian leader and Mrs. Gandhi returned to Bombay by the mail steamer from England

Sir Arthur M Mahon arrived in Cairo to take up his appointment as High Commissioner of Egypt

11th.—The Arab tribes in Oman who had for over a year been threatening the capital of the Sulian at Mascat delivered their long expected attack. The fighting lasted from 2 am. till 1 p.m. when the enemy withdrew having lost 500 killed and wounded out of a force estimated to number 3 000. The rebel leader was reported wounded. British Indian troops namely a portion of the 95th Russells Intantry and the 102nd Grenadlers held the line of the defence and had one British officer wounded and six sopoys killed and fourteen wounded

12th.—In the Imperial Legislative Council at Delhi, H. E the Vierroy apoke for forty minutes and mentioned that 200 000 troops had been despatched, or were being despatched, from India to the front, still leaving the strength of the Indian frontier defences unfouched. Lord Hardings upcelly referred to the intri

gues and pressure of Germany and Austrawhich had plunged Turkey into the war A War Ordinances Bill to continue in force the provisions of certain ordinances during war time and for six months siter its close was passed.

13th.—H. E the Governor and Lady Willingdon gave a dinner party at Government House, Bombay to the members of the Municipal Corporation.

A report by Mr C B Mallet on the work of the Indian Students Department in England during 1914 was published in Delhi and des cribed many interesting points in the life of Indian Students in the United Kingdom and the work done for them by the Department.

14th—The Indian Science Congress which is comparable with the British Association for the Advancement of Science, opened a three-days session in Madrae There was a long list of papers.

21st —H H The Aga Khan returned to India after an absence of almost a year

23rd —The sanouncement was made that Mr M. M. S Gubbav LCS, had, as an experimental measure been attached to the Board of Trade in London for a few months on special duty as Indian Trade Commissioner

24th—H E the Vicercy arrived in Bombay on a short visit, one of his objects being an in spection of the Lady Hardinge War Hospital H H, the Nizam who was staying in Bombay paid a visit to the Vicercy at Government house Lord Hardinge visited numerous places of in terest in and about the city

25th.—H E the Vicercy salled from Bombay in H, M S Northbrook for the Persian Gulf

...3th ... The report of the Bengal District Administration Committee consisting of a volume of some 200 pages was published. It contained numerous detailed proposals for the improvement of the administration in Bengal districts and in the province as a whole

30th.—Death announced of Laut-General Sir George Milman, who distinguished himself in numerous actions in the Crimean war and the Indian Mutin y

31st — Death announced of Rear Admiral the Hon Victor Alexander Montagu a Crimean and Indian Muting veteran

H' E the Vicercy arrived at Kowelt from Bombay and on the same and following days received visits from the Shelths of Kowelt and Bahrein investing the Ruler of Bahrein with the insignia of K.C.S. 1. and Shelth Abdulla Bin Eas with those by C.I.E.

### FEBRUARY

1st.—A bine book draining with the co-operative credit movement in India during 1914 was fissible in Delbi. It showed that the total number of societies had rhan during the year to 15,673 as against 12,324 in 1913, and that there were 329 central, 806 non-agricultural and

14 538 agricultural societies 1t will be observed that the agricultural societies had during the course of the year increased by 3,166.

2nd.—Death amounced of Major-General Sir Luke O'Connor, O B. V C a Connean and Jestian Mutlay veteran, who rose from the ranks. The Viceroy proceeded to Abadan at the mouth of the Shatt-el Arab where he visited the refineries of the Persian Oil Works

ard.—The Vicercy received the Sheikh of Mohammersh in his steamer. His Excellency later sarrived at Basra, where in reply to an address of welcome he gave the ascurance that being from the more being administration will bring back to Iraq that property to which her rich potentiabities give her so clear a title. The Vicercy vigited the British and Indian inditary hospitals ashore conversing with a large number of sick and wounded and in the afternoon was at home on board his steam er and in the evening gave a small dinner party

4th.—The Hon Sir Harcourt Butler, member of the Vicerov's Council for Education visited the Islama tolings Peahawar and opened the Hook Kappel Hall in the main building of the College. There was a large gathering of frontier and trans frontier Mallis Khans and tribs men. Sir Harcourt Butler mad a congratula tory telegram from H. E. the Vicerov and in a speech referred to the powerfull influence with this college would spread in the country ide and beyond the frontier and warmly enlogized the educational and other good work done by Sir Ceorge Roos keppel as commissioner in the North West Peoniter Province.

5th—H. I the Viceroy landed at Basia and rode with an except ten miles across the open desert to Shaiba, the advanced position of the British Expeditionary force. His Excellence was subsequently at home to the notables of Barra Uity and the Indian officers of the gar rison and during the alternoon conformed the Kalser I Hind medal upon My Nao Abbo first

Arab Dragoman to the late Basra Congulate
oth.—H E the Vierroy proceeded up the
Shatt-el Arab to Kurns where he inspected
the British position

7th.—Lord Hardinge proceeded up to river Tigris in a launch to visit H. M. 9 Especie two miles distant, from the dack of which is obtained a clear view of the Turkish encampments and inspected the main position at Kuma Hi Excellency subsequently re-embasked in H M Excellency subsequently re-embasked in H M

9 Lewrence to return down the river 8th.—H. E the Governor of Bombay per formed the ceremony of switching on the supply of electricity to Bombay from the Tata Hydro-Electric Works

9th.—H E the Governor and Lady Willing don arrived at Ahmedahad at the opening of a tour in Guiarat

II.b.—H. E the Viceroy visited Mascat on the rotten from Easta, and exchanged formal visits with the Sultan. The Vicerov visited the British Consul and accorded private interviews to the French and American Consuls His Excellency also inspected the troops who successfully repulsed the determined attack recently made by the rebel Arab tribes and congestitated them for their gallish technique.

gratulated them for their gallent behaviour 14th.—H. E the Vicercy arrived at Delhi on his return from the Guif

19th.—The death of the Hou Mr C K Goldhale occurred at Poons, after a protracted

iliness affecting his heart
20th —H H the Maharaja of Bikaner arrived
in Sembay on his return from the front in
Flandary

25td.—Imperial Legislative Council at Delhi H. E the Viceroy presiding Lord Hardings before the commencement of business, paid a warm tarbute to the late Hon Mr G K Gothale saying we shall feel the vold he has created, for one may truly say that it would be almost impossible to fill his place in Indian public life. The Hon Sir G M. Chitnavis speaking on behalf of the Hon Members of the Council, searchated thoself with His Excellency's remarks and expressed the members profound sorrow at Mr Gothale's drash. The Council then adjourned for the day

The ss City of Mysore an Ellerman liner commanded by Captain J Perry bound from Calcutts for London was reported ashore on Kontari Reef on the Ceylon coast She had on board four pa sengers all of whom were taken of The crew remained in the ship

24th—Imperial Legislative Council How Wr C E Low took the oath of allegiance The Fr Wi W H Cark in-induced the Patents Bill a measure aroung out of war conditions. The Hun Mr M \ Das moved the following resolution — This Council is commends. to the Governor General in Council the commu nightion to His Gracious Majesty the feelings of incen gratitude devotion and loyalty with which the immense population of India have been drawn towards the Throne by His Majesty's personal attention to Indian soldiers in the theatre of war and in bospitals and the conse quent unswerving resolution of the Indians to support the honour dignity and prestige of the Propire regardless of the sacrifice it may entail on the m. Numerous of the security is may entain on the m. Numerous Hon Members spoke in support of the resolution which was adopted with dight amendments, and H. E. the Vicerous area predict with great pleasure and announced that he would communicate it to H. M the King Emperor The Hon Raja Kushal Pal Singh moved that in view of the cessation of imports from hostile countries the local Governments be consulted on the desirability of promoting induscongenies of the by local on lines of taken advances. After a long debate in which the Hon. Mr. Clark explained the position of Gov. ernment the resolution was converted into a form of recommendation in favour of Govern ment continuing, in view of the conditions arising from the war to afford such a sistance and co operation as might be practicable in the promotion of industrial enterprise in India and no carried

25th — Wr. W. L. B. Souter (III., was gazetted Inspector the real of Police in the Bombay Presidency

28th.—An influ mind preliminary meeting of the leading citize us of Bombay was held to consider what steps should be taken to commonate the service and red by the late Mr G. Gokhale. The Hom Mr 'thands Hill proposed the principal resolution ear that a requisition in forwarded to the Shuff of Bombay to cover a public meeting in the Town Hall on the subject. This was accred to and a large and influential committee was appointed.

The first official despairies regarding the fighting in the Persian Gulf war area were issued at Delhi

### MARCH

End.—Imperial Legislative Council. The Mon. Sir William Mayer introduced the Budget estimates for the ensuing year. He gave an exhaustive review of the effects of the war in India and agnounced that there would be no increase in taraction.

The Bombay Municipal Corporation gave a dinper in the Municipal Council Hall in celebration of their jubilee H E the Governor and Lady Willingdon were the principal greats

4th.—H. R. the Vicercy opened the Sara Bridge manufacting direct rallway passenger communication across the Lower Ganges. The bridge was named the Hardings Bridge The Vicercy proceeded later to Calcutta and in the afternoon unveiled statues of Lord Ripon and Lord Minto upon the Maidan

55h.—A public meeting was held in the Bom bay Town Hall to pay a tribute to the late Hon Hr G K Gothale H. E the Governor presided. H. H. the Aga Khan proposed a resolution recording the meeting's deep sense of loss by Mr Gothale s untimely death and its appreciation of his public work, and in the course of long speech delivered a warm rulogy of the doceased leader. The Hon Bir Pherososhah Macha seconded the resolution in a speech broken with emotion the Hon Vr Glaude Hill and Bir Bhalchandra Krishna supported it and it was exarted unanimously A resolution of condolence with Mr Gothale a family was passed and it was decided to raise a suitable memorated or memorials and a committee was appointed to collects subscriptions and to take all necessary measures.

6th—H E the Viceroy inspected the newly formed Calcutta Scotish Volunteer force His Excellency presided, as Chancellor at the Convocation of the Calcutta University an assecting a grant of ten takin to the University by the Government of India

8th.—Imperial Legislative Council at Delhi The Hon Sir William Meyer opened the first stage of the discussion on the financial state meat. The Hon. Mr Dadabboy moved that the allotment for radiwars be reduced by fitty laths sad that the smount so freed be allotted to the Provincial Governmonts for the development of education and sanitation. After a lengthy debate the resolution was negative and the Provincial Governmoner of the Central Provinces be replaced by a Chief Court consisting of five Judges or more After considerable debate in which the Hon Sir E Graddock are pressed sympathy with the resolution the Hon Mr Dadabboy withdown his proposition.

9th.—Imperial Legislative Council Budget debate continued

10th,—It was officially reported that the Turkish Government anthorities at Jeddah had school a coup of 30 000 sachs of bariey destined school a coup of 30 000 sachs of bariey destined selegations to the holy places thus upsetting the palicy of the British Government topics with a period arrangements had been underly excepting food supplies sent to this port

from British measures for dealing with oog traband.

18th—Sir James Begbie sailed for England on retiring from his position as Secretary and Treasurer of the Bank of Bombay

Rombay Legislative Council Budget Meeting at the Secretarist, Bombay H. E. the Governor bresiding. The Hon. Sir Richard Lamb present de the Financial Statement, which showed that the war had affected provincial finances less than Imperial finances. The Financial Statement having been formally presented, the Council adjourned for the day out of respect for the late Mr G K. Gokhale

Budget meetings of the Punjab United Provinces Central Provinces and Burma Legislative Councils

The non-official members of the Bombay Legislative Council elected by 22 votes to 7 the Hon Mr Chunital Setalvad as their representative on the Imperial Legislative Council in place of the late Mr G K Gokhale

15th —Bombay Legislative Council Badget debate. The Hon Mr. Pattani withdraw the Bill to consolidate and amend the law relating to the formal recognition of hers executors and admin attators and the appointment of the administrators of property by the Courts in the Bombay Presidence stating that the Bill sai temerged from Select Committee was very similar to the Succession Certificate act of 1887, and was withdrawn on the opinion of the High Court and other officials. A Bill to authorize the levy of dues on yeasels for the provision of lights on the coast of the province of Shot, was read a third time.

At a meeting of the Senate of the Calcutta University the following resolution which had been adopted by the Syndicate was presented for approval — That the University of Calcutta tiews with the atmosphera subcreame and condemnation all acts and pratices during the breast war having the effect of intensitying the criteries and sufferings inseparable from a state of war and which are in violation of moral and international obligations and leading to the destruction of universities libraries museums works of act and other side to suiture progress and civilization. Consideration was possponed

16th—H E the Governor formally opened the Bombay Cities and Town Planning Exhibition at the Bombay Town Hall

Himbay Legalative Council The Bill to decentralize and otherwise to facilitate the administration of certain encouncil in force in the Presidency of Bombay was nessed through second and third readings. The Hon, Mr Okande Hill introduced a bill to amend the Bombay Protection of Pluriums Act. The Bill was read for the first time and referred to belied Committee. The Hon Mr V J Patel moved a resolution recommending consideration of the desirability of re-arganging the conditions of employment of the Official Engineer, Official Receiver and Official Liquidater The motion was capted

The House of Lords adopted Lord Macdon nell's resolution advising His Makety to with held the Royal assent, during the continuance of the war to the draft Proclamation creating an Executive Council for the United Provinces

17th.—Imperial Legislative Council Mr B. 17th—Imperial Legislative council ar & Wellan and Mr R Graham took the oath of allegiance The Hon Mr Clark introduced a Bill to amend the Indian Steam Vessels Act, 1884 the Assam Labour Bill and the Sea Ous-tomis Bill The Foreigners Bill was passed A resolution by the Hon Mr Rams Rayan lugar recommending steps to make the verns culars the midla of instruction and the study of English the secondary language compulsory for Indian pupils in secondary schools resulted in a lengthy debate after which the resolution was withdrawn. The Hon Rat Sits Nath Rov. moved a resolution in favour of direct Govern ment help to the Indian sugar industry but after a short de bate the resolution was nega-

19th.-Imperial Legislative Council the Vicerov who presided read a telegram from H. M the King-Emperor stating that he had received the council cloval resolution with great satisfaction. The Vicerov at 0 read mes-sages from Field Marshal Sir John French and teneral Sir I. Willooks appreciative of the teneral at a window appreciation of the held not be that you of the Indian troops in the field. The Hon Sir R Craddork introduced the Public Safety and Detenoe Bill which was avourably received by the Council and passed through all its tuges into law

22nd - Imperial Legislative Council Dr Sunder La! and Mr ( H & falved were aworn ... iv n in he henour by H H the Maharaja

in as members The Hon Sir William Meyer presented the revised Budget, and introduced the Indian Paper Currency Bill The latter was paged into law The Hon Sir Harcourt Butler was paged into law The Hon Sir Harcourt Butler introduced the Hindu University Bill The Hon Dr Sunder Lal expressed the thanks of the promoters of the University to H E. the Viceroy and Sir Harcourt Butler for all the encouragement they had given and other non official members joined in a chorus of congra omria members joined in a cnoral of congra-tulation. The Indian Patents and Designs Bill and the Delhi Laws Amendment Bill were passed. A long discussion took place on the Government's wheat export policy.

24th — Imperial Legislative Council. The Assam Labour Bill was passed. The Hon Sir Thrahim Rahimtulia moved a resolution inviting Covernment to consider the desirability of the future policy in regard to State Rallways being on of management by Government instead or by managing companies Government accept ed the resolution which was carried after a long dobati

25th — Imperial Legi lative Council Budget discussion The non official members of the Council gave their annual Imperial Council daner at Delhi There was a distinguished company of guesta. The only touata were the Kha Funp ror and the Imperial forces at the front and His Excellency the Commander. In Chafresponded for the latt r

If t-If F the Viceros in the course of a vert to explicit affected the State banquet

#### APRIL

5th - The Hon Mr Claude Hill was enter ath—The Hon Mr Claude Hill was enter tained at a farewill dinner at the Taj Malial Hotel Bombas given in his honour by Strdur Sald Suleman Kasam Wice Freddent of the Hombay Branch of the All India Moslem League on Mr Hill 8 appointment to H F the Viceroy & Council

7th —The Hon Mr W H Clark, Mamber of the Vicercy - Executive Council for Commerce and Industry met the Bengal Chamber of Commerce in Calcutts

8th - Wr Pherose t Sethna was elected President of the Bombay Municipal Corpora tion

11th.—The Hon Sir Wm Weyer Finance Member of the Government of India the Hon Member of the dovernment in the form of Mr W H Clark, Member of Commerce and Industry and the Hon Mr C E Low Secretary for Commerce and Industry met the governed committee and the finance sub-committee of the Bornbay Chamber of Commerce for the purpose of informally discussing vari one questions of commercial importance

12th-H E the Covernor of Madias laid

the foundation-cone of the Boddam Muslim Ho til Corge Town to be erected under the auspleis of the Mahomed in Educational 4 modistling of Southern India

13th—A large crowd moving down the sloping approach road at the Harkl pair pool at the Harkwar Mela got out of control and twents two people sell and were trampled to death. Of those killed thereen were men and nine women

14th.—Authoritative detailed reports were published in Rangeon of recent Kachin trouble in the extreme north of Burma caused by the Sana and Laphae Kachins becoming turbulent last December and of the successful settlement of the trouble by a punitive expedition.

23rd. - innual meeting of the Bombay Mill owners Association

25th -A great combined naval and military attack by the British forces assisted by the French upon the Dardanelles commenced, the armies under feneral Bir Ian Hambion s command being landed successfully at dawn under cover of the fire of the fleet

### MAY

let .- The Government of India issued a resolution defining their policy in relation to announced steps to reconstruct the Cabinet local self-government taking the general view on a broader personal and political basis. that further development was desirable under such conditions as the local Governments and administrations might consider advisable in their respective areas progress to be on the successful and the state of the successful and the successful and the successful and the successful and otherwise enlarge the scope and resources of the local bodies which had already been prepared by the local govern menta were explained

The Times of India reduced the price from four annes to one anna and announced that as a result of the notice a fortnight previously that the change was about to be made the circulation of the paper had already increased by four hundred per cent No alteration was made in the size or policy or style of contents of the paper

5th.—The Municipal Commissioner of Bombay presented a report to the Corporation in which be pointed out that among twenty great cities Bembay stood wirth in point of mortality from tuberculoris and he recommended the Corpor two recommended in the recommended the topological or topological formula Hoppital and that the balance of half a lakh from the Royal Visit Fund should go towards meeting the expense The Corporation referred the matter to their Medical Committee

10th .- The European Association in Calcutta addressed a long letter to the Government of India urging the compulsory mulitary training in India of all British subjects from Furope and the Colonies

13th -It was officially a mount of that the ral Sir Louis Botha had entered Wandhook the ral Sr Louis Bouths may entering windows a so-capital of German Bouth West Africa and hoiseed the British flag there. Three thousand Europeans were found in the town. A quantity of rolling stock wa taken

17th.—The people of Bengal having fitted up a hospital flat, or barge for use in conup a hospital flat, or harge for us in ton usexion with the operations in Mesoportamia the barge was despatched from Calcutta to be formed to Rombay for fluid equipment then and ahe founded on this day in the Bay of Bengal during bad weather. In crew wife rescued by the towing strain.

19th -Mr Asquith in the House of Commons

22nd -The Bombay Chamber of Commerce addressed the Government of Bombay on the subject of volunteering and military training in India and suggested that Government should at the earliest possible moment hold a full in quiry into the present condition of the auxiliary military forces in India with a view to taking such steps as might be necessary to increase their numbers and to advance their (ficienc)

The Relian Senate passed by 262 votes to 2 a Bill granting the Government extraordinary powers in view of the political situation

23rd - The Italian Government announced the mobilization of the Italian army and de clared the state of war to exist in their northern movinces

24th.—The Rombay Hindus met in a joint meeting to celebrate Empire Day and speeches of profound lovalty and of enthusiastic support to Government during the continuance of the war were made

Italy declared war on Austria

25th.—The personnel of the new (abject as amounced in London was shown to include the appointment of Mr Austen Chamberlain to be Secretary of State for India with Lord Isling ion as Indir Secretary

29th - I'm a Indian Officer of the 23rd Sikh Pioneers name ly Subsday Major Balwant Singh Bahadur and Subedar Pritam Singh stationed with their regiment at Aden were murdered by A Se DOV

31st.—The Covernment of India announced an important advance up the Tigris river by the British Pxpeditionart Force in close co-operation with the navy The force captured three 16-pounder guns complete with ammunition and 241 prisoners the enemy being driven in full retrest up the river

The death was aunounced of Sir Charles Crostivate a former member of the Indian Civil Service He first came to India in the early fortice of the last century and was Chief Commissioner of British Burnia during an im portant development in the history of that COURTEY

### JUNE

Brd.—General Townshead, accompanied by Capt Nunn, R V and Sir Percy Cox, with a caps Runn, R v and hir Fercy Cox, with a small guisdoat fictilin, received the surrender of the Governor of Amara in Mesopotamia. The groups captured in the phase of operations just concluded comparised about 80 officers 2,000 men 7 field guiss 6 naval guist 12 large sceed barges and various other river resist and a considerable number of rifes and **Amonumition** 

H W the King Lauperor completed his filligth year. At His Majesty's request the day was not celebrated with the usual festivities owing to the war but it was generally ob served in India as a whole or partial holiday and numerous loyal gatherings in honour of the occasion took place

The Birthday Honours I principled 8 K.C P J 12 CAL PROLE OKCLE MCLE, 8 Knighthoods and some 50 LS O and hater I Hind Medals The recipients of K. C I E included the Hon Mr P D Pattani, Member of the Emoutive Council of R E the Governor of Bombay, and the recipients of the Gold Medal of the Kaiser I Hind included Lady Willington Lady Carlyle and Lady Lukis

The Hon Mr Montago presided at a dinner in London in honour of Sir Krishna Gupta on the completion of his term of office on the India

The Secretary of State for India announced the appointment of Sir ( A White late Chief Justice of the Madra, High Court to be member of the Council of India

4th -General Nixon commanding the Expeditionary Force at Mesopotamia, reported the surrender on the previous day of the Governor of Amera, on the Flyris with some 30 officers and about 700 soldiers

5th.-- Crylon was placed under martial law hi consequence of violent widespread disturbances attended by fatalities and grave injuries to weeple and property between unhalted and Moormen Shipping at Colombo was brought to a standatill the (colombo tram service was nepended and the government railway service curtaded

6th -There reached India a vivid account by an official Eye witness of the great battle of Neuve Chapelle giving the first connected ac-count of the work of the Indian regiments.

10th - News was received in Bombay by cable from London of the death of Mr Craigle late senior partner in the firm of (raigle Blunt and Caroe solicitors of Bombay

11th.—The English mail for India lett London by the route Folkestone Boulogne and Mar seilles thus marking the resumption of an over land route for the Anglo Indian mail service in both eastward and activated directions

12th.—The Government of India published their annual review on prigation which showed that twenty five million acres were being irrigated and that eighty one crores worth of crops were in the past year raised on the area thus made tertile

15th.—An official announcement by the wiretary of State for India was issued in Sinia

stating that sithough in normal circumstances Lord Hardings of Penshurst s term of office as Vicercy and Governor-General of India would terminate in Kovember His Majesty's govern ment had requested him to remain until the end of March next and that Lord Hardinge had compiled with their wishes and H. M. the King Emperor been pleased to approve the arrange ment. The announcement was accompanied by a brief note by Lord Hardings who said that it was with no light heart that he had agreed to this prolongation of his onerons res ponsibilities but that the feeling that I have the friendly confidence of so many gives me courage to continue to fulfil my duties to the best of my shilty and for the welfare of India and her people

18th .-- The first heavy rain of the monsoon broke in Bombay

20th — The P & O steamer Nuhia grounded on the sand bar at the mouth of the Kelani river Ceylon during high monsoon seas at are; ceyion during aigh monoton scale at 5 o clock in the morning. The peasengers were safely taken off and a quantity of cargo was thrown overboard in order to lighten the ship Efforts to save the vessel continued during several days but were unsuccessful.

It was announced that Sir Edward talt had been appointed Lieut, Governor of Behar and Orissa.

30th.-It was announced that in response to a request by the Imperial Government, the munitions of war for use in Europe and that for this purpose a new Department had been created for the priod of the war with Mr Bayley hitherto Assistant Scoretary to the Railway Board (Stores Department), as its head.

The Hon Sir William Clark, Member for Com-merce and Industry met the Bombay Chamber of Commerce and in the course of a long discussion of the Governments wheat costrol policy explained that the matter had an Imperial as well as indian aspect and that the details of the policy adopted were fixed by the Home authorities

The report of the Joint Select Committee of Parliament upon the Indian Consolidation Bill na 1-aued It proposed certain amendments of a minor character

### JULY

5th.-The report was issued of the confinitiee ; bth.—The report was issued of the committee appointed in July 1914, to frame a scheme for a University of the teaching type in Nagpur or in the neighbourhood, and for the affiliation to it of colleges situated in other parts of the Central Provinces and Beray The University which the committee proposed would possess powers entiting it to a high place in the admittable to the provinces. Admits the provinces and the provinces are the provinces and the provinces are the provinces and the provinces and the provinces are the provinces and the provinces and the provinces and the provinces are the provinces and the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces are the provinces and the provinces are the provinces and the provinces are the provinces and the provinces are the provinces are the provinces are the provinces and the provinces are the province ministrative autonomy involved a certain measure of financial independence and the com mission trained proposals accordingly. The confinition framed proposals accordingly. The confinition recommended that the University institute in Calcutta which was condimited recommended that the University institute in Calcutta which was condimited to the control of the control of training to young men.

Arts Law and Science and a department for the training of teachers subordinate to the Faculty of Arts

The operations proceeding up the Euphrates river resulted in the Turks being driven out of their main position at Suk-el Shuyukh, with heavy loss and the surrender of a battery

6th -- H. E the Governor of Bengal laid the foundation stone of the new building of the

The death announced of Sir Theodore Hope, tormerly of the Bounday Civil Service

8th -It was announced that His Makerty the King-Emperor had approved of the appoint-ment of fir George Rivers Lowndes barrister at law as Law Member of His Excellency the Voerey's Executive Council in succession to the Ban Sir Syed All Imam E C S L

oth.—It was officially announced in Pretoria that General Boths had accepted the surrender of the entire German forces in South West Airica, and that hostillties had ceased. The Germans surrendered unconditionally

10th .- The fifteenth Sections of the Borabay Provincial Conference were opened at Poona. H. E the Governor was present and made a speech on the resolution expressing loyalty to the Throne and unshakeable allegiance to the British connection with India and declaring the determination of India to stand by the Empire at all bazards in the struggle in which the Empire was engaged. The delegates num bering over 2,200 people gave His bxcellency who was accompanied by Lady Willingdon an avition.

12th.—Bombay Legislative Council revised Budget presented and discussed

An outrage occurred in the vicinity of Bushire, when Major Oliphant 90th Regiment and Capt Banking, Assistant Political Officer while out with a pairol reconnoising were ambushed and fired as from close quarters both the British officers and one serpey being killed and two others of the party wounded. 13th—Bombay Legislative Council The Hon

Mr. Monivi Raffinddin Ahmed moved a resolu mr. moury saminous annes moved a resolu-tion expressing gratitude to H. M. the King Emperor for extending Lord Hardings a term of office as Viceroy, and grateful thanks to Lord Hardings for the cheerful response in accepting a further term of office. The resolution was exerted unanimously—The Bill to amount the serries unasimonisty—The Bill to smend the Bombay Protection of Pligrims Act, 1887 was passed through second and third readings.— The Hon. Sir P D Pattani moved the first reading of a Bill to amend the Bombay Munici pal Act of 1888, and the Bill was read the first time and referred to a Belect Committee—The Hon Mr W D Sheppard introduced a Bill further to smend the Bombay Medical Act of 1888, and this was read the first time and re terred to a Select Committee -The Pill to pro vide for a Survey of the Town and Island of Bombay was read the second and third times and pened into law

Sultan Sir Ali bin Ahmed bin Ali, K.C.I.E., Sultan of Albarta (Lahej), was fatally wounded during an attack on his capital by a joint force of Triks and Araba. He was brought into Aden and there underwent a writing operation but succumbed soon after

14th -- The Hon Captain W. L. Graham A. D.-C., of the Indian Army Reserve of Officers fell through an open hatchway into an empty coal bunker on board the hospital ship Madras, in Bombay docks and died from his injuries Capt. Graham had been serving on the Embark attent Staff in Bombay since the war broke out and was engaged in his duties when the accident occurred. He was head of the firm of Mesers W & A. Graham & Oo in Bombay

Bombay Legislative Council The Hon Dewan Bahadur K G Godbole moved a resolution tavouring special financial assistance from the Government of India for the construction by private enterprise of railways in the Konkan Kanara and the Western Ghat districts of the Bombay Presidency but after considerable dis the resolution was withdrawn.—The cussion. favour of the extension of the elective principle in the appointment of members to taluka and district local boards. The Hori Sir P. D. Pattani announced on behalf of Government that H. E. the Governor's Council had already for some the tovernors council has arready for some time been considering this question and were prepared to accept the resolution with slight, a numbers. The amended resolution was carried. Considerable further elisonsesion on the subject of local government followed. The needing concluded with expressions of appreciation of the Hon. Sir Bichard Lamb, about to retire

17th -The Government of India Issued, in a press communique a letter from General Sir Ian Hamilton Commander-in Chief in the Gallipoli Peninsula, to H. E. the Vicerov giving an account of brave fighting by the 14th Sikhu and warmly praising the valour of the Indian troops in general

21st -The death occurred of the Hon. Mr Fazulbhoy Chinoy, C I E of Bombay

A force from the Aden Garrison attacked the prefition taken up by the Turks in their recent raid a few miles outside the fottement, and drove them from it the pursuit being continued for a distance of five mike

24th.—The advanced and main positions of the Turks at Nauriych on the Euphrates river an important place in the Beart villaget were recessively stormed and taken and all the Turkish artiflery and several hundred prisoners were captured. The Turkish losses in tilled of whom 500 were left on the field, and wigningded were heavy amounting to approximately \$500

27th.-H. E the Governor of Bombey &nounced that Bir Samoon David Bert, and Bir Baspurf Broachs had generously ofter d to furnish on behalf of the City of Bombay two only equipped military aeropianes to form part of the Over seas Aircraft Fittillis

### AUGUST

filt.—Anniversary of the entry of England on this Anniversary of the declaration of right-into the war. Services of Intercreasion were come war this meeting of citizens records its hold in the places of worship of all communities inflortible determination to continue to a victoand in the places of worship of an communities; indexible arterimenton to continue in whether throughout the Endian Empire and a large rious end the struggle in the maintenance of improve of public meetings were held at which those ideals of the try and justice which are the the following resolution was passed — That common and event cause of the Aliles, 'this resolution being similar to that adopted by public meetings in all parts of the British Empire

6th.—The Senate of the Bombay University decided to bestow degrees of LLD upon Mr Dadabboy Naoroji and the Hon Sir Phero seahah M Mehta in recognition of their public services

8th—4ir Richard Lamb & CSL CIE LCS sailed for England on retains from the Executive Council of H. E. the Governor of Bombey and from public service in India

13th—Government of India issued a communique with regard to their action concerning German and Austrian subjects in India since the beginning of the war explaining that leni ency was shown at the commencement of the healilities but that sterner measures had been taken in view of the furtheds of savagery adopted by Germany.

15th—The Government of India published despatches from General Nicon commanding in Mesopotamia and Maj General C I. Fry and Maj General C J Molliss regarding the Ognimg at Shajba on April 12th 13th and 14th.

17th.—H Ewho Governor presided as Chancellor at the annual Convosat on of Bombay University, and delivered a not worthy addired in which he dealt specially with the moral issues at stake in the war showing how they must profoundly affect the responsibilities of an public lessituation, and particularly of a university which was the custodian of the best traditions of human thought and conduct

The lasts for the Government of India 4; crore 4 per cent, terminable loan were closed and it was amounted that sub-riptions amounted to Bs. 663 lasts, exclusive of applications from smaller centres from which report had not yet arrived and subscriptions of small amounts to the Post Office.

A patrol from the Rastam front on the North West Frontier reported hostile bodies of Bonor wals occupying low bills at the mouth of the

Ambela pass and in the atternoon large bodies of these tribesmen estimated at about four thousand, with many standards advanced to wards the vicinity of the British Camp. An artillery and infantry attack was made upon them, and the enemy was completely routed and driven back to the hills.

20th —H. E the Governor of Bombay and Lady Willingdon met in the Bombay Ministyal Hall a number of leading citizens of Bombay official and non-official, who presented separate portraits of Their Excellencies, panned by a well known artist together with a suitable address expressing the admiration and respect of the subscribers specially on account of the fine example of courage which their Excellencies had set to all classes of Bombay mee the outbreak of war and their unfaitering devotion to duty at a time of anxiety and peril.

21st — 4 large anniver-ary meeting of the Women's Branch of the Bombay War and Relief Fund took place in Bombay Town Hail, when Lord Willington who presided, gave a comprehensive account of what had been accomplished and a strong appeal was made to all classes to continue the good work

soth — A large public meeting of Calcutta residents was held at Calcutta to concert measures for raising a permanent memorial to commemorate the services rendered by Sir Lawrence Jenkins – retiring Oblet Justice of Bengal Babu Pearv Mohim Mukerjee presided. A committee was appointed to reise junds and a resolution culonizing for Lawrence Jenkins, work was passed on the initiative of Sir Rash Bihari Ghosh, econded by Sir S. P. Synliv and supported by Mr. Burendra Nath Bannerjee.

Report were issued of successful a counsaaures on the field, 28th and 28th on the Buner border on the North West Frontier during which various attacks by large forces of Swatis were bester off with heavy loss to the enemy and the tribesmen were driven out of Kak fort which was destroyed.

### SEPTEMBER.

1st.—Heavy floods in Linknew tawnport and elsewhere in the United Provinces following inposition unusually heavy rain and causing great damage to property and rendering thou sands of people homeless.

2nd —Sixteen Sowars, one lance-duffadar and one duffadar of the 23rd Cavairy (Frontier Force) stationed at Daghad, having been found guitty as regards seventeer, of constring to cause a muthy in their regiment and, as regards the other of falling to give information of the quasiphery although he knew of it, treview where exercited at Ambalia, the somences of death on five of the sowars having been constituted by H. E the Commander in Chief to transportation for the and that on the last accused, who was realtened to transportation for life to transportation for life to transportation for the very provient or the commander.

off A cuthering of Mohinard Lashkarnumbering about 10 000 men being reported from the lower Gandab Valley Maj General Campbell noved out with the First Division of the Frontier Force to attack their position near Hafi Kor and drove off the enemy, after inflicting heavy losses on them.

6th.—The annual quadrangular oricket tour nament between English, Parei, Hindu and Mahomedan elevens opened at Poona.

manomenan enevers opened at Frona.

8th.—Imperial Legislative Council at Simia.

H. b. the Viceroy presiding. The following new additional members 100k the oath of allegiance Khan Habadur Misn Muhammad Shah. Mosers Grent, Birkett, Stewart, Sell, Harrison and Riss The Hindu University Bill was introduced by the Hon Sir H. Butler and referred to Select Contralities.

12th .- The as Luphrate went ashore in the night at Sokotra during a voyage from Salgon to Manaelles and five hundred and eighty ave passengers were reacted by the stramer City of Vagpurand taken to Colombo

14th.—The Special Tribunal in the Labore Congrisory Gase pronounced judgment show ing that in May 1913 Indians forming inflam mable material in America were stirred into a state of hostility towards the British Govern state of hostifity towards the British Govern ment, with the result that there was a conspiracy for an insurrection in India. The consipracy and preparation finally developed at the end of July and beginning of August 1914. A very large number of men set out from America en route to India in three ships these men being reinforced at various places in the Far East In August a series of acts such as decoities seduction of troops villagers and students the manu facture and collection of arms and bombs were accomplished, as well as attacks on railways buildges forte arsenals and general communica tions and a general rising was properted. Sen tenoes were passed on the accused including Bhat Parmanand, M.A. late Professor of History at the D. 4. V. College Labore who was convicted of abetment of waging war and sen tenord to death

15th.—The Quadrangular Cricket tournament who having previously beaten the English XI who having previously beaten the Valumedans now beat the Hindus who had defeated the

A fire broke out in Bombay in the Aria the Petroleum Company's yard as the result of the exploding of a large kerosene oil tank. Ap proximately 500 tons of oil were burnt and a similar quantity was saved from the burning tank by being pumped into another reservoir No explanation of the fire was forthcoming but the company were satisfied that it was not the result of incendiation.

17th — A farewell dinner was given to Sir All Imam retiring law Member of the Vice roy's Council by the Indian residents of Simia Over one hundred covers were laid the guests including members of the Loga lative and Exc cutive Councils and other destinguished gentle men. Sir All Imam made an interesting speech reviewing his period of office

20th.-The Indian Reliway Conference Assoristion met at Simia Colonel C H Cowie presi ding

Elad.—Imperial Legislative Council at Simia H. the Vierroy prestding. The Select Com-mittee's reports upon the Inland Steam Vessels Rill and the Handa University Bill were presen-ted. The Hon. Six Wm. Gark Introduced the Indian Ports Act Amendment Bill. The Hon Sir instant rents act assentiated half. The Hon Sir Wis. Clark intro dued a Sil. The Hon, Sir Wis. Clark intro dued a Sil to provide notifiers in the pay a spablic artherity of certain section in the pay indicate the pay in the pay of which was or neighb to provide for other limits, who headed the deputation of indicate the provider for other in residents.

matters in connection with trading with foreigners. The Hon Mr Muhammad Shafi proposed a resolution recommending a representa tion to the Secretary of State urging that India should in future be officially represented at the imperial Conference a number of speeches were made and an important announcement was made by the Vicercy accepting the resolu tion which was carried upanimously

23rd.—Mr Haji Suleman Abdul Wahed was elected Additional Member of the Bombay Legislative Council in place of the Hon Mr I M Chinov deceased

25th.—The Punjub Legislative Council met at Simla and H. H. the Lieut Governor made an important speech reviewing the recent poli-tical disturbances in the Punjab and paying a tribute to the loyal behaviour of the mass of the people

H L the Governor of Bombay and Lady Willingdon gave a narrwell dimner at Government House Ganeshkhind, to the Hon Ur P D Pattani on the latter's retrement from his post as Member of the Executive Coun-ell on the return from England of the Hon Mr on the recurs from England or the from a speech warmly appreciating fir Prabhashanker's public services, and Lady Willington handed a present to Lady Prabhashanker Sir P D Pattani in responding spoke warmly of the friendly spirit with which he had been surrounded in his work in the Governor a Coimell

20th - Annual meeting of the Indian Merchant Chamber and Bureau Bombay The Hon Sir Fasulbios (cerimbboy who presided and the Hon. Mr. Manmohandas Ramil, both spice at length reparding Japanese competition in capturing the trade formerly done in India by Austria and Germany and emphasized the im-portance of Government specially helping Indian enterprise in the matter

Death of H H The Rain of Raminia at

2sth -Pandit Madan Mohan Malaviya in the 25th -Faint uauan Monan Maintya in the presence of a large and appreciative gatherms, unveiled in the Jounell Chamber of Viceregal Lodge at Sunia a portrait of Lord Harding-presented by the Haharajah of Kassimbasar Speeches warmly eulogizing the Vicerey were made by the Maharajah and the Pundit

General Sir John \ixon reported that the British forces on the river Tigris attacked on this day the Turkish position at Sind, seven miles east of Knt-et-Amarah, and were com plotely successful, saveral hundred persons be ing taken together with many guns and rifes and much ammunition while in dead the enemy lost severely

#### OCTORER

list.—Viceroy's Legislative Council at Simla,
H.E. the Viceroy presiding The Hindu Uni
vernity Bill was passed into law H.E. the Viceroy at Simla by the Simla
Viceroy reviewed at length the situation in
regard to the war and explained the programme
to business before the Legislative Council for
virth them the Convernment of Uniter India roller in the ensuing winter session

Motor Postal Service Introduced Into Bombay

2nd - Death at Simis of Sir Arthur Ker Kt.

4th.—H.E the Governor of Bombay attended the annual reunion of the students of the Decean tollege at Poona and made in en couraging speech

5th.—A large and representative public meeting was held at Ahmedabad under the presidency of Mr Painter Collector to consider what steps should be taken to reliev distress both of human beings and cattle in view of the failure of the rains

6th.-Farewell dinner at Viceregal Lodge Simis to the Hon Sir Harcourt Butler on hi departure for Rangoon to take up the Heut nant-Governorship of Burms

8th -H.H the Raish of Rutlam in a letter std — H.H. the Rayan of Rudam is a letter to the Times of India warm't advocated that the Indian Princes and people should subscrib to present a Dreadnought to the Imperial Go-vernment in recognition of the inestimabil ervices rendered by the Imperial Na v to the Fupir including India during the war

The annual administration report of Indias railwave was issued. It showed that during the year the net return on capital invested in railwaps was 5 33 per cent compared with 6 19 per cent in 1913-14. The capital expenditure by Government available for new construction having been cuitalled by the exigencies of the war the mileage of new rail. way completed by companies upon concession and rebate terms exceeded for the first time the mileage of railways financed by any other method and of the total mileage of 237 financed under these terms 220 miles were constructed with money raised in India

H F the Vicerov was enturtained at a fart well dinner at the United Service Club Simla and in responding to the toast of his health paid a warm tribute to the whole of British officials in the country and spoke in generous terms of India as a true friend of the Empire and not merely as a trusted dependent

9th.—A gang of Bengalee youths entered the house of the Deputy Superintendent of Police at Myzoensingh and murdered the Deputy Superintendent and his son the former having taken up his duties in Mynensingh as recently as August and having formerly been attached to the Intelligence Branch at Calcutta.

19th.—A Press communique issued in Simia detailed the plan shopted by Government for the special distribution to ex soldiers of land commanded by the Triple Canal Irrigation Project in the Punjah.

with them the Government of India policy in regard to wheat and rupee loans

18th -- The Bombay Municipal Corporation received an offer from the trustees of the late Mr Gordhands Simderdiss of twelve lakins of upees for the foundation of a Medical College students to the King Edward Rospital Rolling Millated to the Bombay University The Corporation referred the matter to their Medical Relief Committee

19th -The annual report of the Posts and felegraphs in India was published. It showed that during the past year a thousand million uticles were despatched by post, including twenty four million registered articles while tamps to the value of nearly two million terling were sold for postal purposes and thirty million money orders of the total value of hirty seven million pounds sterling were issued and a sum of eight million pounds sterling was ollected for tradesmen and others on value pavable articles. Three million insured articles awaye action. Into million means arrange, arranged as forty nine million points, wen madded Twenty one thousand pounds of quinne were sold through the Post Officeto the public while at the close of the year. here were over our and a half million saving, then were over our and a main minuser as may bank accounts with a total balance of ten nillion pounds and twenty five thousand oostal life insurance policies with an aggregate assurance of over two million pounds terling

The Indian Civil Service (Temporary Pro-ision ) Bill was introduced in the House of Lords by the Imperial Government in order to movide for the recruitment of the Indian Civil tervice amid the special difficulties created by he war

29nd - An anarchical outrage was committed n Calcutta the victims being two Criminal n captures the victims being two Criminal newsigation Department officers Inspector lithidts Nath Bannerjee and Sub-Inspector Ipendrs Nath Chatterjee In the evening they must to 99 Musjid Baree Street, the residence of another OID officer At about 10 30 pm. several strangers suddruly rushed into the room and fired at Girindra who reeled back and I il dying almost immediately They hen chased, the others, hitting Upendra in the back. The murderers except, but arrests were made later

29rd -The death of Sir Henry J S Cotion ECSI was announced

Major General bir Partab Singh The Regent of Jodhpore returned to Bomba; from the ront in France and proceeded to Jodhpore

25th -Sir Harrourt Butlet was given a public reception in Rangoom on arriving there to assume office to Lieutenant-Governor of

27th -- British and Indian troops at Chak darrah on the North West Frontier moved carran on the North West Fronther moved north-west into the Administrate and engaged a force of 2,000 to 3,000 Bajouris who had entered the tract with a view to stirring up trouble amongst the tribeamen of Dir and Upper Swat The enemy was heavily shelled and driven of

the Indian Civil Service (Temporary Provisions

While H M, the King Emperor was inspecting the army in France his horse became as cled by the cheers of the troops and reared and fell, and His Majesty was severely brubed and had to be taken to the bed though no analysis to be a condition of the condition of t complications in his condition arose 29th — The Secretary of State for India notifi

at present to give any information as to the

#### NOVEMBER.

1st —A Conference of Electrical Engineers and Inspectors in the service of Government was opened in Calentta Vr. J. W. Meares Electrical Advisor to the Government of India presiding.

8rd --The death was announced of Sir Robert Laidlaw a founder of the firm of Whiteway Laidlaw & Co and donor of many benefactions for educational and philanthropic work in Tadla

4th —The Second Aryan Brotherhood (on ference was opened in Bombay Sir Narayan samulayarKar presiding at the opening meeting as Chairman of the Reception committee wilk ( J Burnett, LCB LCVO who held a presidential address was delivered by Sir various important commands in India and was R. G Bhandarkar who occupied the chair GOC at Poona from 1880 to 2000.

5th -The death occurred of the Hon Sur Pheromethan M Mehta at his residence in Bom bay

A Press communique issued in Umla gave a review of the receipts and disburses ents of the Imperial Indian War Relici Fund since the last fall mport on the subject in February An outline of the many activities of the Fund was given and the report showed the heavy expense entailed by this work and warmly appealed for continued financial support

6th—The funeral of the late Hon Sir Pheromethals Melita was the secure of a remark able demonstration of sorrow at his death by several thousand, representatives, of all on several thousand representatives of all our muraties in Brun bay, who lined the route from Sir Pheronechal's house to the gates leading to the Towers of Silence. If I the Governor was officially represented in the funcial procession and outside the Towers of Silence Sir \(^1\) C (handwarder and derwed a functal cartion to a large gathering of people to whom the drew the lesson of Sir Pheroceshals I lie sugging them to complete his example of public secretar texts. For the Engineer there are forth and the arging them to emulate his example of public agrees to the Pmpire at large to India and to their own city of Bombay Expressions of regret as the death of Sir Pheroscalah poured is from all parts of the Bombay Pradesey and from many large centres discussive natural form many large centres discussive natural form of the Bombay Pradesey and on various dates approximative natural for the Bombay Sigh County, the Bombay Municipal Corpor ration, the University Senate and elsewhere

The death of Major-General Retry Reliand a Indian Moting Veteran, was approximed.

10th —An ordinance was gazetted by the Government of India empowering them to requisition all factories and workshops in India war purposes and to regulate the sailings of British steamers from Indian ports and reserve In them all or any accommodation for the carriage of persons, animals or goods.

11th—H R the Governor of Bombay and dy Willingdon arrived at Belgaum from Lady Willingdon arrived at Belgaum from Mahableshwar at the opening of a tour by special train and motor car but the Southern Mahesita country

14th —H H the Raj Caheb of Vankaner a Rajput Chief of Kathlawar sailed from Bom ber for the front

16th.—H E. the Viceroy gave a farewell dinner at Delhi to the Hon Sir All Imam refired Law Member of the Vicerova Connell

t"th - The Central Provinces and Berar Pro vincial (onference met at Nagpur

H F the Governor of Bombay and Lady Willingdon after touring through the Southern Mahratta country and visiting the Gaersopp.
Falls as guests of H H the Maharaja of
Mysore arrived at Marmugae and paid a visit to Nova Goa, where they were officially enter tained by H E the Governor General of Por tugac<del>se</del> India

18th -The Coylon Legislative Council for mally voted a gift of £1 000 000 sterling to the Motherhand in ten annual payments of £100 000 each

20th.—An appeal was published in Lahare for funds for a war fleet, consisting of armour rel acrophants named after the five rivers of the Pranjab the Suilej Earl Beas Cheanb and Jahum and if funds permit, of other named after the indus and Jahuma. The fleet will be a present from the Punjab and residents in the North West Frontier and Defin Pranjab VINCOL.

Dr. J. C. Bose gave a lecture before a large audience in Calcutta, describing the history of the steps by which he came to make his recent

Ojet -The P & O mail steamer Balsette grounded on a spit of east on the African share

in the Gulf of Stien at 8-30 p to She remained there till the next afternoon when she was towed off unbart, by three warships which arrived from Sues in response to the wireless

23rd —H E the Governor of Bombay and Lady Willington returned to Bombay after their tour which they concluded by visits to numer ons coast towns of the Bombay Presidency from Karwar to Bombay

nemorial statue of the late Maharaj Shri Lak Singhii the Maharajah a father 25th — Mr Dhahaw Edulies Wacha

pasetted a member of the Bombay Legislative Council as the elected representative of the Bombay Municipality in succession to the late Hop Sir Pheroveshah Mehta

20th.—The P & O S. N Company's armual report aboved a profit balance of half a-million sterling and reported the loss of the Nile 24th—H E the Vicerov during a visit to falling upon Government as she had been H the Maharajah of Bikaner unveiled a requisitioned

#### DECEMBER.

State for the Colonies since 1911 was appointed Governor of Cevion, in succession to Sir Robert Chaimens re called Home for special work on account of his financial experience

4th.—An enemy submarine sank the ss. Colenso which steamer had on board a large and important construment of new machinery purchased by the Bombay Municipality in connexion with the extension of their Rewage Outfall Works. The machinery chiefly consisted of a patent travelling stage about 47 feet square with motors and cranes which was required for laving the extension of the www.ge main in deep water

A meeting of over ten thousand Vaho medians took place in Bombay and passes a resolution in tayour of the postponement of the season of the All-India Moslem League which the Council of the League had summoned dur

ing Christmas week.

Sch.—H H. the Jam Scheb of Savanagar arrived at Bombay on his return from the front in France, having come on short leave to take

is France, in ving come on short teave to take part in the fearning ceremon of his elster with H H the Maharajah of Jodhun 7th --Bombay Legislative Councit at the Secretariat Bombay H E. th Governor presiding. The Council on the motion of His Brooflendy passed a resolution expressing its sense of loss through the death of the Hon Sir Dhescontable Mother and the different of the Roy Sir Pheroseshah Mehta, and then adjourned for

Phenoseman the Bombay Municipal Act of further to ancend the Bombay Municipal Act of last was passed through second and third and as a token of his unit management through second and third and as a token of his unit management through second and third and as a token of his unit management of the last management of the l M B Chaubal moved the first reading of a Bill further to amend the Sind (ourts act 1886) and this measure was passed through all its steps into law. The remainder of the Sitting was taken up with private resolutions.

H E, the Governor formally inaugurated the diplicated water supply from Tanas man performing the orreinguy at Valabar Hill Beservoir in the presents of a large gathering 9th.—Bombay Legislative Council The Hon Mr B & Kamat then moved— This Council resolutions of the Council the Council the Council the Council the Council the Council the Council the Council that Government may be released.

1st —Sir John Anderson Under Secretary of in Municipal Dispensaries or other public insti-tate for the Colonies since 1911 was appointed buttons supported by local funds and conducted according to Indian systems of medicines After a long and animated discussion the resolu-

After a long articd the minimated operation was articd H B, the Vicerov at Mangla formally opened the new Upper Julium Irrigation Canal. Following an appeal to H. B the Governor of Bombay for his advice and sympathy in composing the differences between Mahometana as to the holding of a session of the All India Moulem League in Bombay a conference of Mahomedana was held at the Bombay Secretari at, at which His Excellency presided and the Hon Sir All Imam was present: It was agreed that the session should be held and that at it the League should pass a resolution of loyalty to the Government while the League might if it desired appoint a committee to a view to framing a scheme of reform, having due regard for the needs of Mahomedans the

dux regard for the needs of Mahomedaar the report of the committee to be presented at the next annual section of the All India Mostem League and a resolution should be passed praving His Majesty's Government to extend H E Lord Hardinge's term of office.

H E Lord Hardinge's term of office, the latter of the H H Maharana Shri Vilaysinhi, was installed on the gaid of Rajpia in ascersion to his father. His Highness, in a speech after the investiture requested the Political Agent to offer to H M. the King Funporor through the Imperial Government his asset ances that his services and the entire resources.

as arear rose and subscriping Rd. 1,000 to ship memorial fund that might be initiated. A re-obtion expressing the sense of lone felt by the citizens of Bombay at 8th Photographsh a death and their appreciation of his public life and example was passed. It was resulted to communicate the duep sympathies and considerate of the modifies to Very Make. Wit B & Kannat then moved.—The Hon hard of the meeting to Lady Mehta, and recombinends that Government may be pleased to consider the advisability of no amending memorials a committee being appendix of Section 11 of the Dombay Medical Act, 1912, as collect so hardylons and take other negating to easile persons practising indigenous systems measures. Subscriptions a modification to the collection of the 18 to 18 18th.—As previously stranged a cricket carnival in aid of the Women 8 Ennach of the Bombay Freatdrang War and Relief Frand was opened on the Bombay Gymkhana ground by a match between aides captained respectively br H E the Governor and H. H the Mahamia of Patials, the former representing England and the latter India, the players being selected in both cases from all over India The Indian The Indian team won the tors and batted first

15th.-The cincket match, England vs India, anear—ane eneste meant, angland es india, in Bonabay resulted in a wm for the English team by an innings and 203 runs. After play H H the Jam Saheb of Nawallagar off red H L the Governors but and the five cricket balls used in the game for sale by suction H H the Maharapa of Patrala bought the bat for Rs. 2,500 and the five balls sold separat I realised a total sum of Rs. 742

17th - Death at Bombay at the age of 16 of Bomanice Dinshaw Perit millowier and

1946 -The second metch of the Bembas cricket carmival, which was hetween the Paraces i and the Hindre, ended in a draw after an ex-etting faith. The Women's Branch of the Bombay Presidency War and Rebet Fund in aid of which the carnital wir in augurated benefited by about Rs 80 000

23rd -The Governor of Bombat Lady Willingdon and parts left Bombat for a tour

the eleventh sessions of the Indian Indus trial Conference operad at Bombay Sar Donab; Tata pressing The session continued on Tata pressling

H I the commander m-thief in India published a message from H M the king imperor conveying his Major's and H M the Queen Knippens (firstman graving and good wishes for the new year to all who on sea and land were upholling the bonous of

26th .- The first Indian Commercial Congress was held in the Town Hall Bombay, sir Familibnoy turrimbboy being sicoted President

27th -The sittings of the 30th Indian Na tional Congress commenced in Bombay under the Presidentship of Sir 8 P Sinha of Calcuttathe Presidentship of Sir S P Sinhs of Calcuttas Among the resolutions passed was one decaring the loyalty of the People of India to the British Government and their willingues to serve the Empire Another being of for a further extension of Lord Hardings s trin as Viceron Sir S P Sinhs in his Fresidential address referred the daim of Indians to self Government declar d his faith that under British rule it would be given to them es a matter of evelution and urged cooperation with Government in working out the process if development

28th - The 4ll India Mahom din I ducation al (omerene mer et Pooms ell Han Me Ju tie, Abdu Rabun presidin.

goth—Fis P & O Company a steamer Per is brund from London to Bomba, was sunk by an enemy submann in the Mediter ramean off On to Out of 231 passengers as all about 270 cress frontly listers only 166 were asyed. The passenger list included the names of Mr. P M. Coleman. Director of Bennett Coleman, to Ltd. Propur fors of th. Times of India and his son Mr. M. Coleman.

the twenty ninth session of the Indian Social Conference assembled in Bombas Prot D & Karve presiding

The eighth session of the All India Moslem League opened in Bornbay Мr Marher W Hand Dresiding

The twelfth All India Temperance conference was in d at Bombe :

stet-The second day a proceedings of the All Moserm League Wire marked by scenes of I to we receive a partie of the little of th

#### INTEREST TABLE.

#### FROM 5 TO 12 PER CENT OF RUPLIN 100

Ostenhaled for 1 Year 1 Month (Calendar) 1 West and 1 Day (365 Days to 3 ear) the Decimal Praction of a Pactor the Day being shown for the Day

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Rupers	1s 3}d	le Sfed	1s 35d	18 341d.	18 374	1s 3}sd.
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		20 0100	23 0194	13 142	To 43 G (	10. 3/8/31
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Rupees	1 <sub>b</sub> 1 · d	1e 4{d.	<del></del> ,	1s 4 d	15 4 7 d	1s 41d
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# Table of Exchange, No. 2-Pounds Sterling into Rupees.

		Per values of R	uper from 1s	ste to be Sized		
Sterling	at 1s, 34d	at 1s. 8,4d	at 1z. 3 d	at 10 3{}d	at 1: 3%d	at 1m 3}ad.
\$ 2.6 0 0 1 0 0 6 0 0 6 0 0 1 0 0 0 5 0 0 0 5 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 5 0 0 1 0 0 0 5 0 0 0 7 0	R8 a. p 0 1 0 0 4 1 0 6 2 0 0 2 0 12 4 1 14 11 3 13 11 5 12 10 7 11 10 15 7 8 154 18 5 367 16 8 164 8 1 1774 3 1 1,161 4 7 1,548 6 2	0 1 0 1 0 6 2 0 0 6 2 0 0 6 2 0 0 12 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 4 1 0 5 1 0 9 2 3 1 14 7 3 13 5 5 13 1 7 10 10 15 5 0 76 12 0 153 0 7 383 16 11 400 12 9 788 70 0 1 161 15 11 1,536 0 0	0 4 0 0 6 1 0 9 2 0 12 2 1 14 6 3 18 2 5 11 0 7 10 4 15 4 15 4 15 6 7 7 10 122 15 9 382 7 5 458 15 6 764 16 6 1,529 14 1	Rs. a p 0 1 0 0 4 6 0 6 1 0 9 1 0 12 2 1 14 5 7 9 10 15 3 9 76 8 0 162 6 1 360 16 2 457 2 3 761 14 5 1,142 13 8 1 523 12 11	Rs a p. 0 1 0 0 4 0 0 0 6 0 0 9 1 0 12 1 1 14 3 3 12 8 5 10 11 7 9 5 15 2 10 151 12 5 879 7 1 455 5 4 4 756 14 6 1,188 5 4 1,517 12 7
			upers from 1s	<del></del>		
Sterling	at 1. 33d	at 1s 31.d	at le 833d.	at 1s. 4d	at 1s 4344.	a 1s. 4 /od
# d # d # d # d # d # d # d # d # d # d	Rs a p 0 1 0 0 5 0 0 2 1 1 14 2 3 12 2 5 10 7 7 8 11 15 1 10 377 1 5 2 453 8 8 755 14 5 1 1188 13 8	1 14 1, 3 12 2 5 10 3' 7 8 5 15 0 11 75 4 8 150 9 4 376 7 5 451 12 2	Rs a p 0 1 0 0 6 0 0 9 0 1 14 0 3 12 1 5 10 1 7 5 0 5 7 5 2 4 150 4 8 375 11 8 450 14 1 751 7 5 3	Rs a p 0 1 0 0 6 0 0 0 1 0 0 0 0 1 2 0 0 1 14 0 0 7 8 0 0 150 0 0 0 150 0 0 0 750 0 0 0 750 0 0 0 750 0 0 0 1,125 0 0 0	Re a p   0 0 11, 0 8 11, 0 8 11, 0 11 11, 13 10 11 11, 13 10 17 7 9, 14 15 6 74 13 7, 149 11 8 374 4 2 2 449 1 11 748 8 7 142 12 10	Rs a p 0 0 11 1 0 8 11 0 6 11 10 11 11 13 9 5 19 7 7 7 6 14 15 0 74 11 3 149 6 7 378 8 6 7 448 2 11 747 1 3 149 6 9 10

## For values of Rupess from 1s 4 d to 1s 4 d

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5 0 0 20 9 0 24 0 0 20 0 0 75 9 6 100 0 9	74 9 0 140 2 0 572 12 0 447 4 9 745 19 1 1,118 7 1 1,491 4 2	74 6 8 148 13 4 372 1 5 446 6 2 744 2 11 1,116 4 5 1 488 5 11	74 4 4 148 8 9 871 5 10 445 10 4 742 11 11 1,114 1 19 1 486 7 10	74 2 1 148 4 2 370 10 5 444 12 7 741 5 0 1,111 15 5 1 482 10 0	75 15 9 147 15 7 369 15 0 448 14 10 799 14 1 1,100 18 1 1 479 12 3	78 18 6 147 11 0 309 5 7 443 1 2 738 7 4 1,107 11 0 1 476 14 9

## The Ministry.

#### (CABINET MARKED TRUE\*)

Prime Minister Mr Asquith \*
Munister without Portfolio Lord Lansdowne \*
Lord Chancellor Lord Buckmaster \*
Lord Prevident of the Council Lord Crawe \*
Lord Privy Seal Lord Curson \*

#### PRESIDENTS

Board of Trade Mr Runcim m \*
Local Covernment Roard Mr Long \*
Board of Education Mr Henderson \*
Board of Agriculture Lord \*Ciborne \*

#### SECRETARIES OF STATE

Home Mr H Samuel Foreign Sir F Grey \* (closure Mr Bonar Law \* Bor Farl Kitchener \* India Mr Chamberlain \*

#### TREASURY

First Lord The Prime Minister
Chancellor of the Exchaquer Mr Wekenna \*
Junior Lords Mr A H Roberta Wr ( Howard Mr Bridgeman Mr W Rea
Footnood Secretary Mr E Montage
Parhamentary Secretaries Wr J W Gulland
and Lord Edminid Talbot

#### PARLIAMENTARY I KDHE SPURETARIES

Home Mr Brace
Foreign Lord R Ceell
Colonies Mr Steel Malifand
India Lord Intington
War, Mr H J Tennant
Board of Trade, Captain Protyman
Local Government Board Mr Hayes Fisher
Board of Agriculture, Mr Aoland
Board of Education, Mr H Lewis
Postmatter General
Astrictani-Postmanter-General, Mr Pike Peace

Chemositor of the Ducky of Lancaster, Mr B Samuel Furst Communication of Works Mr Harcourt \* Paymanter-General, Lord Newton.

#### ADMIRALTY

Furt Lord Mr Baltour \*
First Sea Lord Admiral Sir Henry Jackson.
Second Sea Lord Vice Admiral Sir F T Hamilton
Phird Sea Lord Rear Admiral F ( T Tudo ( B
Fourth Sea Lord, Capt Cecil Lambert
Civil Lord The Duke of Devenshire
Parliamentary Secretary Dr Machamura

#### ARMY COURCEL

Secretary of State for War (as above)

Minister of Munitions. Mr. Loyd. George. "
Munitions: Dr. C. Addison
Chief of the General Steff. Br. W. B. Robertson
Adjudant. Gen. Lt. Gen. Str. H. C. Bolster
Quartermaster Ceneral. Major Gen. Str. John S.
Cowans
Master General of the Ordeance. Brig. Gen. S. B.
von Donop
Parliamentary Under Secretary (as above)
Pinaneal Secretary. Mr. H. W. Fostur
Attorney-General. Sig. F. F. Smith
Solicitor General. Sig. G. Lav.

#### SCOTLAND

Secretary for Scotland Mr. M. K. Wood \*
Lord Advocate Mr. R. Munro
Scheiter-General Mr. T. B. Morison

#### IRLLAND

Lord Leutenant Lord Wimborne Lord Chancellor Mr I O Brien Chuf Secretary Mr Birrell.\* Attorney General Mr J Gordon Solicitor-General Mr James O'Conner

For many years Indian time was in a state of chaotic contesion. What was called Madras or Railway time was kept on all the railways and sending reach operior of population kept its own local time, which was not based on any common scientials principle and was divorced from the scientific grinciple and whe divorced from the standards of all other countries. It was with a view to remedying this contration that the Government of Inda took the matter up in 1904, and addressed to the Local Governments and through them to all head bodies a long letter which reviewed the stantion and made enorations for the future. The essential points

in this letter are indicated below
"In India we have already a standard time, which is very generally though by no means miverally recognised. It is the Madras local time which is kept on all rallway and telegraph ties throughout India and which is in 21m 10s. In advance of Greenwich Mimlarly Rangoon local time is used upon the railways and telegraphs of Burms, and is 6h. 24m 47s ahead of Greenwich. But neither of these tandards bears a simule and early remembered

relation to Greenwich time.
"The Government of India have several times been addressed by Scientific Societies both in India and in England, and urged to fall into line with the rest of the civilised world. And now the Royal Society has once more returned to the attack. The Committee of that Society which advices the Government of India upon matters connected with its observatories writes --Committee think that a change from Madras time to that corresponding to a longitude exactly 5) hours east of Greenwich would be an improve ment upon the existing arrangements, but that for international scientific purposes the hourly some system, making the time 5 hours in advance of Greenwich in the west, and 6 hours in advance

in the east of India, would be preferable.

Now if India were connected with Europe by a continuous series of civilised nations with oir continuous raliway systems all of which had adopted the European hour some system it would be imperative apen India to conform and to adopt the second suggestion. But as she is not and as also is an much isolated by uncivilized states

as are is as much motived by uncertained states as Cape Colony is by the cosen it is open to her to follow the example of that and some other singilarly situated colonies and to adopt the first amgrestion.

"It is believed that this will be the better mointion. There are obvious objections to drawing an arbitrary line right across the traveling an accessory me regions across to richest and most populous portions of india and so as to bisect all the main lives of communi-cation, and trepring times differing my an hou-on opposite sides of that line. India has bee secustomed to a uniform standard in the Madras time of the railways; and the substitu-tion for it of a double standard would appear to be a retrograde step while it would in all to be a retrograde stop while it would in all probability be strongly opposed by the railway authorities. Moreover it is very desirable that wheatever system is adopted should be saleswed by all Europeans and Indiana althor and it is contain that the double standard would be mitter greatly while by emphasing the fact that melway differed from local time, it might postpose or even altogether prevent the acceptance of the former fracted of the tables by months beautyping many of inthir by people meanthly over a large part of ladis. The one grant sivenings which the second

possesses over the first alternative is that under the former, the diffurence between Local and standard time can never exceed half an hour whereas under the latter it will even exceed as hour in the extreme cases of Karachi and Quetta But this inconvenience is believed to be smaller than that of keeping two different times on the luchan system of railways and telegraphs.

It is proposed therefore, to put on all the railway and telegraph clocks in India by 8m 50s They would then represent a time 64 hours faster than that of Greenwich, which would be known as Indian Standard Time and the difference between standard and local time at the places mentioned below would be approximately as follows, the figures representing minutes and F and S, meaning that the standard time is in advance of or behind local standard time is in advance or or behmo some time respectively—Dibrugarh 51 8, Shillong 38 8 Calcutta 24 8. Allahatad 2 F. Madras 9 F. Labore 33 F. Sombay 39 F., Pechawar 44 F. Karachi 62 F., Quetta 62 F. This standard time would be as much as 64

and 5. minutes behind local time at Mandala, and Rangoon respectively and since the rallway system of Burma is not connected with that of India, and aiready keeps a time of its own, namely Rangoon local time it is not suggested that Indian Standard Time abould be adopted in Burna. It is proposed however, that in stead of using Rangoon Standard Time as at present which is 6h 24m. 47s. in advance of Greenwich, a Burms Standard Time should be adopted on all the Burmese railways and telegraphs which would be one hour in advance of Indian Standard Time or 61 hours sheed of Greenwich time and would correspond with oreenwich time and would correspond with 97 30 E. longitude. The change would bring Burms time into simple relation both with European and with Indian time and would aimong other things) sumplify telegraphic communication with other countries.

Standard time will thus have been fixed for rail ways and telegraphs for the whole of the Indian Empire. Its general adoption for all purposes while eminently advisable is a matter which must be felt to the local community in each case,

It is difficult to recall without a sense of bewilderment, the reception of this proposal by various local bodies. To read now the fears that were entertained if Standard Time was adopted is a study in the possibilities of human error The Government scheme left local bodies to decide whether or not they would bodies to decide whether or not they would adopt it. Calcutta decided to retain its own local time and to-day Calcutta time is still twenty four minutes in advance of Standard Time. In Bombay the first reception of the proposal was bottle but on reconsideration the Okambar of Commerce decided in favour of it and so did the Minicipality. Subsequently the opposing element in the Minicipality brought is a side resolution, by which the Municipality brought is a side resolution, by the whole is the first own. is a side resolution, by which the shinking hal chocks were put at Bombay time which is thirty nise minutes behind. Standard Time. On the 1st January 1908 all the railway and telegraph clocks in India were put at Indian Standard Time in Burms the Burms Standard Time became universal. Calcutta retains its former secure universal Calcurra retains its former Calcutts time, but in Bombay local time is retained only in the clocks which are maintained by the Municipality and in the establishments of some orthodox Hindus Risewhere Standard Time is universal.

# Indian Stamp Duties.

Addreside or Debt ex Rs 20 0 1 1 0 Addresic or Declaration of Agreement, (a) If relating to the sale of a forement, (a) If relating to the sale of a Govern meet security or share in an in corporated company or other body comparts—Bublect to a maximum of Rs 10 a 1 for every Rs 10,000 or part (c) If not otherwise provided for or Articles of Association of Company 250 of Articles of Certifity 250 or Association of Company 250 of Articles of Certifity 250 or Association of Company 250 of Articles of Certifity 250 or Association of Company 250 of Articles of Certifity 250 or Association of Company 250 of	]	Rs.	B.	] BA	,	ā
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Arbitrator Other than by an Order of the Court. Where the value does not exceed Ed. 1,000, same duty as a Bond  In any other case  50  611 of Exchange or Promissory Note payable on demand but not more than one year after date is sight—hot exc. Ed. 200 not exc. Ed. 200 not exc. Ed. 200 not exc. Ed. 200 not exc. Ed. 200 not exc. Ed. 200 not exc. Ed. 200 not exc. Ed. 1,000 not exc. Ed. 1,000 R 1 a 2 exc. Ed. 1,000 not exc. Ed. 1,000 R 2 a 4 exc. Ed. 1,000 R 1 a 2 exc. Ed. 1,000 not exc. Ed. 1,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 1,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 1,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 1,000 R 3 a 2 exc. Ed. 1,000 not exc. Ed. 1,000 not exc. Ed. 1,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 2,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 2,000 not exc. Ed. 2,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 2,000 not exc. Ed. 2,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 2,000 not exc. Ed. 2,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 2,000 R 2 a 4 exc. Ed. 1,000 not exc. Ed. 2,000 R 2 a 4 exc. Ed. 1,000 R 2 a 4 exc. Ed.	Articles of Clerkship 2	50	0	-	1	1
## Where payable on demand on year after date or sight—hot ext Rs 200 a 3 ext Rs 200 not ext Rs 400 s 6 ext Rs 400 not ext Rs 600 a 9 ext Rs 600 not ext Rs 1,000 R 1 a 2 ext Rs 1,000 not ext Rs 1,000 R 1 a 2 ext Rs 1,000 not ext Rs 1,000 R 1 a 8 ext Rs 1,000 not ext Rs 1,000 Rs 4 a 8 ext Rs 1,000 not ext Rs 1,000 Rs 4 a 8 ext Rs 1,000 not ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 not ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 not ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6 a 12 ext Rs 1,000 Rs 6	Arbitrator other than by an Order of			excess of Ra. 1,000	5	
payable on demand  Where payable on demand  but not more than one year after date  sight—Not exc. Rs. 200 a 3 exc. Rs. 200  not exc. Rs. 600 a 9 exc. Rs. 600  not exc. Rs. 600 a 12 exc. Rs. 800 not exc.  Rs. 1,000 R 1 a 2 exc. Rs. 1,000 not exc.  Rs. 1,000 R 1 a 2 exc. Rs. 1,000 not exc.  Rs. 1,000 R 1 a 8 exc Rs. 1,000  rx. Rs. 1,000 Rs. 4 a 8 exc.  Rs. 1,000 Rs. 4 a 8 exc.  Rs. 1,000 not exc. Rs. 1000 Rs. 9  exc. Rs. 10,000 not exc. Rs. 1000 Rs. 9  exc. Rs. 10,000 not exc. Rs. 15,000, Rs. 6 a;  20,000 Rs. 18 exc. Rs. 1,000 not exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc. Rs. 20 exc.  Rs. 2,000 Rs. 18 exc.  Rs. 2,000 Rs. 18 exc.  Rs. 2,000 Rs. 18 exc.  Rs. 2,000 Rs. 18 exc.  Rs. 2,000 Rs. 18 exc.  Rs.		5		chargeable with duty or if duty with which it was chargeable does not	n	
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but not more than one year after date of sight.—Not exc. Rs. 200 a 3 exc. Rs. 400 not exc. Rs. 400 a 9 exc. Rs. 400 not exc. Rs. 600 a 12 exc. Rs. 800 not exc. Rs. 1,200 R 1 a 2 exc. Rs. 1,200 not exc. Rs. 1,200 Rs. 2 a 4 exc. Rs. 2,500 not exc. Rs. 1,200 Rs. 4 a 8 exc. Rs. 2,500 not exc. Rs. 5,000 Rs. 4 a 8 exc. Rs. 1,000 not exc. Rs. 1,000 Rs. 4 a 8 exc. Rs. 1,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 10,000 not exc. Rs. 25,000, not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 not exc. Rs. 12,000 Rs. 18 exc. Rs. 12,000 not exc. Rs.	payable on demand	0	1		1	١
Rs 1,000 R 1 a 2 exc. Rs. 1 200 not exc Rs 1,000 R 1 a 8 exc Rs. 1 600 R 2 a 4 exc. Rs. 2,500 not exc Rs. 5 000 Rs. 4 a 8 exc Rs. 5,000 not exc Rs. 7 500 Rs. 6 a 8 exc Rs. 5,000 not exc Rs. 7 500 Rs. 6 a 8 exc Rs. 2,500 not exc Rs. 10 000 Rs. 9 exc. Rs. 10 000 not exc Rs. 10 000 Rs. 9 exc. Rs. 2 000 Rs. 18 exc Rs. 2 000 not exc Rs. 2 000, not exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 2 000 Rs. 18 exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 2 000 not exc Rs. 3 000 Rs. 27 and for every add Rs. 10 000 or part thereof in excess of Rs. 30 000 Rs. 9  Where payable at more than one year after date or eight same duty as a Bond for whole amount not more than 3 years, same as Bond for average annual rent results of the average annual rent entry and rent which would be paid or the amount or value of the average annual rent entry and rent which would be paid or elevated for the first tan years if the base combined for consideration equal to non-introl or entry paid in respect of first 50 years. Where there is premium with rent, same as Conveyance for consideration equal to non-introl or entry paid in respect of first 50 years. Where there is premium and no rent, same as Conveyance for consideration equal to non-introl or entry paid in respect of first 50 years. Where there is premium and no rent, same as Conveyance for consideration equal to non-introl or entry paid in respect of first 50 years. Where there is premium and no rent, same as Conveyance for consideration equal to non-introl or entry paid to amount of premium. So on the paid in respect of first 50 years. Where there is premium with rent, same as Conveyance for consideration equal to non-introl or entry paid to amount of premium with rent, same as Conveyance for excession and no rent, same as Conveyance for consideration equal to amount or value of the average annual rent respect of the first tan years if the hoase combined in the paid in respect of the paid in respect of the paid in respe	but not more than one year after da sight—Not exc Rs 200 a 3 exc 200 not exc Rs 400 a 6 exc Rs	to : I 40	3.s 00	with which the original instrument is chargeable does not exceed one rupee —The same duty as is payable on the	1	
exc Rs 1,600 R 1 a 8 exc Rs 1 600 not exc Rs 5000 Rs 4 a 8 exc Rs 5,500 not exc Rs 7500, Rs 6 a 12 exc Rs 5,500 not exc Rs 10,000 Rs 9 exc. Rs 10,000 not exc Rs 10,000 not exc Rs 20,000 Rs 18 exc Rs 10,000 not exc Rs 25,000, Rs 23 as 8 exc Rs 25,000, not exc Rs 20,000 Rs 18 exc Rs 25,000, not exc Rs 20,000 Rs 27 and for every add Rs 10,000 or pert thereof in excess of Rs 30,000 Rs 9 Where payable at more than one year after date or sight same duty as a Bill of Lading  Road (not otherwise provided for)—  Not axi. Rs 10  Exc. Rs 10, but not exc, Rs 50  Exc. Rs 10, but not exc, Rs 50  Exc. Rs 10, but not exc, Rs 50  Exc. Rs 10, but not exc, Rs 50  Exc. Rs 10, but not exc, Rs 50  Exc. Rs 10, but not exc, Rs 50  Exc. Rs 10, but not exc. Rs 100  Ba. 1,000  Basil Attemption of Authority as a consideration equal to amount or value of the average annual rent exception equal to amount or value of the average annual rent exception equal to amount or value of the average annual rent exception equal to amount or value of the average annual rent exception equal to amount or value of the average annual rent expect of institute of the situation equal to amount or value of the average annual rent expect of institute of the situation equal to amount or value of the average annual rent expect of institute of the situation equal to amount or value of the average annual rent expect of institute of the situation equal to amount or value of the average annual rent expect of the situation equal to amount or value of the average annual rent expect of institute of the situation equal to amount or value of the average annual rent expect of the situation equal to amount or value of the average annual rent expect of the situation equal to amount or value of the average annual rent expect of the situation equal to amount or value of the average annual rent expect of the situation equal to amount or value of the average annual rent expect of the situation equal to amount or value of the average annual rent expect of the situation equal to am	Re 1000 a 15 ave Re 1000 no	t e	ZC.	Delivery Order	0	
Rs. 5,000 not exc. Rs. 10 000 Rs. 9 exc. Rs. 10 000 not exc Rs. 15 000 Rs. 28 exc. Rs. 12 000 not exc. Rs. 25 000 Rs. 18 ers. Rs. 25 000, not exc. Rs. 25 000, Rs. 22 a S exc. Rs. 25 000, not exc. Rs. 25 000 Rs. 22 a Rs. exc. Rs. 25 000, not exc. Rs. 30 000 Rs. 9  Where payable at more than one year after date or sight same duty as a Boad for whole amount not more than 3 years, same as Conveyance for consideration equal to amount not more than 3 years, same as Conveyance for consideration equal to amount not more than 3 years, same as Conveyance for consideration equal to amount or value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent which would be paid or delivered for the first ten years if the lease commenced to one in the first ten years if the lease commenced to one into or excessing Rs. 1000, same detay as a sound of promium, same as Conveyance for consideration equal to the amount of years where there is premium and no rent, same as Conveyance for consideration equal to the amount of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term.	exc Rs 1,600 R 1 a 8 exc Rs. 1 not exc Rs 2,500 Rs 2, a 4 exc	600 1	) Ls		10	
exc. Rs. 10 000 not exc. Rs. 15 000 Rs. 9  13 a 8 exc. Rs. 1,000 not exc. Rs. 25 000, Rs. 18 exc. Rs. 25 000, not exc. Rs. 25 000, not exc. Rs. 25 000, not exc. Rs. 25 000, not exc. Rs. 25 000 Rs. 82 exc. Rs. 25 000, not exc. Rs. 20 000 Rs. 82 exc. Rs. 25 000, not exc. Rs. 30 000 Rs. 9  Where payable at more than one year after date or eight banic duty as a Boad Rs. a Boad Rs. a Boad Rs. a Boad Rs. a Boad Rs. a Boad Rs. a Boad Rs. a Boad Rs. 10 000 or exc. Rs. 60 0 4  Exc. Rs. 10, but not exc. Rs. 60 0 4  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 50 but not exc. Rs. 100 0 8  Exc. Rs. 1000 every Rs. 100 0 8  Exc. Rs. 1000 ever	Rs. 5.000 not exc Rs. 7500. Rs 6 a	L, 1	2	In the case of an Attorney 25	ю	•
13 a 8 exc Rs 15 000 not exc Rs 25 000 Rs 18 exc Rs 25 000, not exc Rs 25 000 Rs 22 a 8 exc Rs 25 000, not exc Rs 25 000 Rs 27 and for every add Rs 10 000 or part thereof in excess of Rs 30 000 Rs 29  Where payable at more than one year after date or eight same duty as a Bond for whole same unto not more than 3 years, same as Bond for average annual rent reserved over 3 years, same as Conveyance for consideration equal to moment or value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of the average annual rent reserved for the first ten years if the lease combined Rs. 1,000  Bond, Limitation of the conveyance for consideration equal to one-think of rents paid in respect of first 50 years. Where there is premium and no rent, same as Conveyance for consideration equal to one-think of rents paid in respect of first 50 years. Where there is premium and no rent, same as Conveyance for consideration equal to one-think of rents paid in respect of first 50 years. Where there is premium and no rent, same as Conveyance for consideration equal to one-think of rents and the paid or entered for the first ten years if the lease combined for excessing Rs. 1000, same duty as a conveyance for consideration equal to one-think of the paid of representation equal to one-think of the paid of representation equal to one-think of the paid of the average annual rent reserved for the average annual rent reserved for a consideration equal to the average annual rent reserved for a consideration equal to the average annual rent reserved for a consideration equal to the average annual rent reserved for a consideration equal to the average annual rent reserved for a consideration equal to annount of the average annual rent reserved for a conside	exe Rs 4500 not exc Rs 10000 F	ξ5. <sub>τ</sub>	9	Instrum nt—Apprenticeship		
20 000 Rs 18 ext Rs 29 000 not exc Rs 25 000, hot exc Rs 25 000, hot exc Rs 22 as exc Rs 25 000, hot exc Rs 20 000 Rs 27 and for every add Rs 10 000 or part thereof in excess of Rs 30 000 Rs 9  Where payable at more than one year after date or eight same duty as a Board for less than 1 year same duty as Board for less than 1 year same duty as Board for every annual rent reserved over 3 years, same as Conveyance for consideration equal to amount or value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to amount or value of the average annual rent rent which would be paid or delivered for the first ten years if the hosse consideration expected in respect of the first ten years if the hosse consideration expected for the first ten years if the hosse consideration expect of rents paid in respect of first SO years. Where there a premium with rent, same as Conveyance for consideration equal to consideration equal to consideration equal to consideration equal to consideration equal to consideration equal to consideration equal to consideration equal to consideration equal to employ the minute paid for less than 1 year same at Conveyance for consideration equal to amount or value of the average annual rent reserved for the first ten years if the hosse constituted to rents paid for less than 1 year same at Conveyance for consideration equal to amount or value of the average annual rent reserved for the first ten years if the hosse constituted to consideration equal to amount or value of the average annual rent reserved for the first ten years if the hosse constituted and the paid of the same as Conveyance for consideration equal to amount or value of the average annual rent reserved for the first ten years if the hosse constituted and the paid of the average annual rent reserved for the first ten years if the hosse consideration equal to amount or value of the average annual rent reserved for the paid of the average annual rent reserved for the paid of the average annu	13 a 8 exc Rs 1,000 not exc	Í	Le Le		1	-
of Re 30 000 Re 9  Where payable at more than one year after date or sight same duty as a Bond of Ladasy  Road (not otherwise provided tor)—  Not axa. Ba. 10  Exc. Ba. 10, but not exc. Rs. 50  Exc. Ba. 50 but not exc. Rs. 100  Up to Ba. 1 000 every Ba. 100  For every Ba. 500 or part, beyond Ba. 1,000  Bond, Limitation, Customs, Security or Morigage Deed—For amount not exceeding Rs. 1 000, same dirty as a summer of premium, same as Conveyance for consideration equal to amount or value of the average annual rent convenience of the surveyance for consideration equal to amount or value of the average annual rent which would be paid or delivered for the first ton years if the base combined so long in perpetuity, same as Conveyance for consideration equal to open perpetuity and no rent; same as Conveyance for consideration equal to open perpetuity and the surveyance for consideration equal to open perpetuity and the amount of promium promium with rent, same as Conveyance for consideration equal to open perpetuity. Surveyance for consideration equal to amount of promium and the amount of the average annual rent reserved.  So long in perpetuity, same as Conveyance for consideration equal to amount of promium. So consideration equal to amount of the average annual rent reserved for the first tan years if the base combined so consideration equal to amount of promium and the amount of the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for the average annual rent reserved for average annual rent reserved for average annual rent reserved for the average annual rent rese	20 000 Rs 18 ext Rs 20 000 not Rs 25 000, Rs. 22 s 8 exc Rs 2 not exc Rs. 30,000 Rs 27 and for	6 00 6 00 eve	00, Ty	or conferring or purporting to confer	10	
Where payable at more than one year after date or sight same duty as a Bond for whole amount not more than 3 years, same as Bond for average annual rest reserved over J years, same as Conveyance for consideration equal to amount or value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount or value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount or value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount or value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount or value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of value of the average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserved over J years, same as Conveyance for average annual rent reserve		- 100	PB4	Lease—Where rent is fixed and no pre-		
after date or eight same duty as it Board  Board  Bill of Ladisty  Not axa. Ra. 10  Exc. Rs. 10, but not exc. Rs. 50  Up to Bs. 1000 every Rs. 160  Up to Bs. 1000 every Rs. 160  Ba. 1,000  Board, Laminstationion, Customs, Security  or Mostgage Deed—For amount not excessing Rs. 1000, same dity as a soft premium, and same as Conveyance for overy law of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of value of the average annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of the first ten years if the issue combined so long in perpetuitry, same as Conveyance for consideration equal to the amount of popular paid in respect of first 50 years Where there is premium and no rent, same as Conveyance for some of the average annual rent reserved over 3 years, same as Conveyance for one of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to the amount of proprinting annual rent reserved for indefinite term, same as Conveyance for a consideration equal to the amount of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to tamount of value of the average annual rent reserved for indefinite term, same as Conveyance for consideration equal to tamount of value of the average annual rent reserved over 3 years, same as Conveyance for consideration equal to the amount of the average annual rent reserved over 3 years, same as Conveyance for consideration equal to tamount of the average annual rent reserved over 3 years, same as Conveyance for consideration equal to the amount of the average annual rent reserved over 3 years, same as Conveyance for average annual rent reserved over 1 years, same as Conveyance for consideration equal to the amount of value of the average annual rent reserved over 1 years, same as Conveyance for average annual rent reserved over 1 years, same as Conveyance for average annual rent reserved over				duty as Bond for whole amount not		
Sill of Ladiny  Rond (not otherwise provided for)—  Not axo. Ra. 10  Exc. Rs. 10, but not exc. Rs. 60  U to Exc. Rs. 50 but not exc. Rs. 100  Up to Rs. 1000 every Rs. 160  Exc. Rs. 50 but not exc. Rs. 100  Up to Rs. 1000 every Rs. 160  Exc. Rs. 50 but not exc. Rs. 100  Ba. 1,000  Bond, Liminstration, Customs, Security  of Mostgage Deed—For amount not excended Rs. 1000, same dity as a soft premium, and same as Conveyance for consideration equal to one-introduced to remain and no rent, same as Conveyance for samount of promium with rent, same as Conveyance for consideration equal to one-introduced to rents again and no rent, same as Conveyance for samount of promium with rent, same as Conveyance for consideration equal to one-introduced to rents again and no rent, same as Conveyance for samount of promium, and same duty as Lease	after date or wight same duty as a			more than 3 years, same as Bond for		
Road (not otherwise provided for)—  Not axo. Ra. 10  Exc. Rs. 10, but not exc. Rs. 50  Exc. Rs. 50 but not exc. Rs. 100  Up to Rs. 1000 every Rs. 160  Rs. 1,000  Bond, Limitationisto, Customs, Security  or Mostgage Deed—For amount not excensing Rs. 1000, same dity as a complete of premium, and same an Conveyance for consideration equal to one-introduced to constitute of the same combinate and no rent, same as Conveyance for exceeding Rs. 1000, same dity as a complete of premium, and same duty as Lease				years, same as Conveyance for consi		
Not axo. Ba. 10  Exc. Ba. 10, but not exc. Ra. 50  Up to Ba. 1000 every Ba. 100  Ba. 1,000  Ba. 1,000  Bond, Administration, Customs, Security of Scores, Security of Morigage Deed—For amount not exceeding Ra. 1,000, same dirty as a combinate of control of rents paid in respect of first So years. Where there is premium, and no rent, same as Conveyance for consideration equal to one-firsh of rents paid the past of order the first ten years if the hoase continued so long in perpetuity, same as Conveyance for consideration equal to one-firsh of rents paid in the first ten years if the hoase continued so long in perpetuity, same as Conveyance for consideration equal to each of which would be paid or department of the aw range and man is rent the first ten years if the hoase continued so long in perpetuity, same as Conveyance for consideration equal to rent the amount of the aw range and as Conveyance for the first ten years if the hoase continued so long in perpetuity, same as Conveyance for the first ten years if the hoase continued so long in perpetuity, same as Conveyance for the first ten years if the hoase continued so long in perpetuity, same as Conveyance for the first ten years if the hoase continued so long in perpetuity, same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued so long in perpetuity, same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent; same as Conveyance for the first ten years if the hoase continued and no rent;	HILL Of Lading	U	•	deration equal to amount or value of		
or value of the average angular rend below with the past or delivered for the first ten years if the base continued to long in perpetuity, same as Couvery Ba. 100 or part, beyond Ba. 1,000 or part, beyond Ba. 1,000 or part, beyond Ba. 1,000 or part, beyond Ba. 1,000 or part, beyond Same Administration, Customs, Security or Mostgage Deed—For amount not exceeding Rs. 1,000, same dety as a confidence of premium, and same as Couveryance for amount of premium, and same at course of the strength with the same and no rent, same as Couveryance for amount of premium, and same duty as Lease	Road (not otherwise provided for)—			indefinite term, same as Conveyance		
Exc. Rs. 10, but not exc. Rs. 50  Exc. Rs. 50 but not exc Rs. 100  Up to Rs. 100 every Rs. 100  Exp. 200 every Rs. 500 or part, beyond Rs. 1,000  Bond, Administration, Customs, Security  or Morigage Deed.—For amount not exceeding Rs. 1000, same duty as a complete subset of the same as Conveyance for consideration equal to one-initial or entry and no rent, same as Conveyance for smooth of premium, and same as Conveyance for exceeding Rs. 1000, same duty as a soft entry as Lease	Not exc. Rs. 10	0	2			
Dup to Ba. 1000 every Ba. 100 o Strong Bound in perpetuitry, same as Converge Bound in perpetuitry, same as Converge Bound in the strong bound in the same as Converge as the second in	Exc. Rs. 10, but not exc. Rs. 50	0	4	which would be paid or delivered for		
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But 1,000 or part, beyond But 1,000 or part, beyond Bond, Administration, Custome, Security or Morigage Deed.—For amount not excuseding Rs. 1000, same depty as a of premium, and same duty as Lease	Up to Ba. 1 000 every Ra. 160	0	8	yence for consideration aqual to one-		
Bond, Administration, Customs, Security amount of pramium premium with real florings Deed.—For amount not smeating Rs. 1000, same days as a of premium, and same duty as Least	For every Es. 500 or part, beyond Es. 1.000	2	В	50 years Where there is premium.		
er Mortgage Deed.—For amount not rent, same as Conveyance for amount of premium, and same duty as Lease						
	exceeding Rs. 1 000, same duty at a			of premium, and same duty as Lease		

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	Bs.	٠		D.	4
GatterAllotment of Shares	0	1	In case of a re-insurance by one Company with another—i of duty pay able in respect of the original insu-		
Credit	0	1	peny with another—; or diffy pay able in respect of the original inst-		
License	10	0	TABOO, DEE BOT 1000 THAN I ANDS, OF		
Meme, of Association of Company—1 accompanied by Articles of Association	f 6 13	0	more than 1 B.  Power of Attornsy—		
If not so secompanied	40	0	For the sole purpose of procuring the		
folories Act	ı	0	registration of one or more documents in relation to a single transaction or		
Note or Messo intimating the purchas or salo-	c		for idmitting execution of one or more such documents	0	ı
(a) Of any Goods exceeding in value. Has 20	0	2	When required in suits or proceedings under the Presidency Small Causes Courts Act 1882	0	
(b) Of any Stock or marketable Security exceeding in value Rs. 20— Subject to a maximum of Rs. 10 s. for every Rs. 10,000 or part	_		Authorising 1 person or more to act in a single transaction other than that mentioned above	1	,
Vote of Protest by a Ship's Master	0	8	Authorising not more than 5 persons to act jointly and severally in more		
extereship—Where the capital dors not exceed Rs. 500	† ‡	8	than I transaction, or generally Authorning more than 5 but not more	٥	
In any other case	10	0	than 10 persons to act	10	•
Dissolution of	J	0	When given for consideration and authorising the Attorney to sell any im-		
obley of Innerence—  13) SeeWhere preserves does no	L		movable property—The same duty as a Conceptuos for the amount of the consi- deration		
<ol> <li>Sou—Where preserve does no exceed rate of 2a., or 1 per cent of nandunt insured</li> </ol>	• 0	1	In any other case, for each person authorised	1	
In any other case for Rs 1,500 or per	t		Protest of Bill or Note	1	
thereof	0	1	Prom	0	
(3). For time-Por every Rs 1,000 o			Receipt for value exc. Bs 20	0	
part insured, not exc 6 months	0	2	Skipping Order	0	
Exaceding 6 and not exceeding 1: months	2 0	4	Surrender of Lease—When duty with which lease is chargeable does not		
If draws in duplicate, for each part.— Half the above rates, for Sea and Time.	i		exceed Ra. 5 —The duty with which such Lease is chargeable. In any other case	5	
(3). Fire—When the sam mured does			l	-	
not exceed Rs 5,000	0	8	Tronsfer of Shares—One Half of the duty payable on a Conveyance for a consideration equal to the value of		
In any other case	1	8	the share.		
In respect of each receipt for any payment of a premium on any resewal of an original policy—One half of the duty payable in respect of the original policy in addition to the anyeaus, if any chargestic under			Transfer of any Interest secured by a Bond, Mortgage-deed or Policy of Insurance—If duty on such does not exceed Sa. 5—The duty with which such Bond, do., is chargeable	_	_
Art 58 (Heorge).		- 1	In any other ouse	5	•
(4) Assistant and Sinham-Against Rathway accident, valid for a single journey only	ø	1	Transfer of Lane by way of assignment and not by way of under-lease—The same duty as a conveyance for a consi		
In say other case—for the maximum amount which may become payable	ļ	-	deration equal to the amount of the con- sideration for the traveler		
smooth which may become payable in the case of any single accident or sidings where such amount does not cas. He. 1,600, and also where amount aste. He. 1,000, for every	ı		Trust, Declaration of Same duty as a Bond for a sum equal to the amount or value of the property cancerned, but not exceeding	i Lø	
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To, 1,000 or part  (6) Life, or offer fluorence, not aposi- ficial provided for, par Ea. 1,000	0	*	Revention of Ditio, but not superf-	10	,

## FOREIGN MONEYS. AND THEIR ENGLISH EQUIVALENTS.

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#### **ECLIPSES IN 1918**

Of the SUN Three of the Moon, Two

I JABUARY 20 Partial Eclipse of the Moon Visible in Africa, S W Europe the Aflantic, N and E America and the S Pacific Visible in the extreme W of Europe the Atlantic, N and S America the Pacific and N E

Florin (Gulden)

Ам. 755 а.т. Moon enters shadow 9 24 a.m.

II FEBRUARY 3. Total Eclipse of the Sun Line of Central Eclipse crosses the E Pacific, Columbia, N W of Venezuela, Guadaloupe the Arores, and ruds in Long 10 W. Lat 49 N Partial Eclipse visible in V America (except V W) in N W of S America, the Atlantic, N W Africa, Portugal, Spain, France and the British Isles.

telipee begins Central Bolipse beg	
, cond	s 5 81 p.m. in 10°W49°1 6 83 p.m. in 10°W39°1
"At	· Begins.
Dublin	A.m.
Ediaburgio Liverpool	4 27 p.m. 4 28 p.m
Oxford Cambridge	4 30 p.m 4 30 p.m
T.m.Ann	4 Si Ď.m

\* irlsh Time

Moon enters shadow 3 19 a.m. leaves 6 13 a.m.

1\ JULY 29-30 Annular Letipse of the Sun Line of Cemtral Eulipse crosses Australia bet-ween Shark's Bay and Exmouth Gulf over Townsend Banges, E. of Lake Gairdner Ade-laide and Tasmaska. Partial, ledipse visible in Malay Peninsula Further India, the Philippites. Malaysis Australia, Tasmania and Zealand

d k. m. Long Lat Edipse bagins Central belipse 29 11 25 p.m. in 103°E 9 S begins 30 0 51 s.m in 90 b 29°S ends 30 3 21 s.m. in 179°E 54°3 30 4 47 s.m. in 179°E 46°S

Regions d. A. m. Rade. 

V DECEMBER 24 Partial Eclipse of the Sun. Visible only in the Anterotic regions.

## The Calendars.

A full Calendar will be found at the beginning of this book. Below are given details of the other Calendar in use to India.

The Justic Calendar is in accordance with the system arranged AP 3S The Calendar seems also to have been related at one the system arranged AP and the Calendar dates from the Creation, which is fixed as 3.760 years and 8 months before the beginning of the Christian Kra the year is Luni-solar.

The Fasti year was derived from a combina order of Akbar it is Luni-solar before the Helita and Sanvat years by the order of Akbar it is Luni-solar to have been related at one that the system arranged AP and the combination of the Helita and Sanvat years by the order of Akbar it is Luni-solar to have been related at one that the system arranged AP and the

a, 700 years and 8 months before the beginning of the Christian Era the year is Luni-solar

The Moleumedics, or ora of the Haliza toxtulgits—test, or bright, and both, or dark dates from the day after Mahomets flight toxtulgits—test, or bright, and both, or dark dates from the day after Mahomets flight toxtulgits—test, or bright, and both, or dark dates from the day after Mahomets flight of the dates of the civil days given in our July 15 622 A p. The months are Lunar calendam

### PUBLIC HOLIDAYS IN 1916

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Jamehedji Naoroz	March	_1	Makar Sankrant	January	11
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Ada Jashan	May	17	Holi		[4
Zerthost no-daso	June	18	Rampavamı	\ pril	11
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Ade Jackan	April	17			
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		11	Shabuoth	June	7
Parsee New Year	ì	12	Tisha beah	August	-8
Aborded 4st		17	Rosh Hoshana	September	25 29
Mahomedan	(Sunni)		   Kippur	October	7
				1	12
Bara Waiat	January	19	Bukkoth	1	20
Shab-e Barat	Jun	17	1		
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Mahim Pair	December	9	Chaitra Sud 15	April	13
				August	26
Mahomedan	(SHIAM)		Sharavan Vad 15, 30		28
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## THE TAJ MAHAL PALACE HOTEL, BOMBAY.

Specially adapted for an Eastern climate and situated in the most fashionable and healthlest part of Bombay, overlooking the beautiful harbour, and open to the sea breezes.



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> Season from 1st October till end af April Off Season from 1st May till end of September

GREEN'S RESTAURANT UNDER THE SAME MANAGEMENT
THE INDIAN HOTELS CO. LTD ,

BONBAY

Gen. Manager

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(REGISTERED IN JAPAN )

(ESTABLISHED 1880)

 Subscribed Capital
 Yen
 48,000,000

 Paid-up Capital
 ,,
 30,000,000

 Reserve Fund
 ,,
 20,000,000

Head Office YOKOHAMA, JAPAN.

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